



## Piper PA – 28 Warrior II

### FLIGHT PREP

- ✓ Nav log *Prepare*
- ✓ Weather *Brief*, Flight plan *File*
- ✓ ARROW, Inspections *Up to Date*
- ✓ Performance/Range *Verify*
- ✓ Fuel *Adequate* (48 Gals usable)

### PREFLIGHT (CABIN)

- ✓ Charts, headsets, Flashlight, store
- ✓ Hobbs Log *Starting Hours*
- ✓ Gust Lock *Remove*
- ✓ Magnetos/Avionics Master *Off*, Master *On*
- ✓ Fuel Quantity *Check*
- ✓ Flaps *Test*
- ✓ Annunciator Panel *Check*
- ✓ Transponder *STBY*
- ✓ Carb Heat *Cold*
- ✓ Fuel Selector *On*, Left/Right
- ✓ Night, *Test all Lighting*
- ✓ Master switch *Off*/Mixtures *cut-off*
- ✓ Pitot Drain/Static Drain *Drain*

### RIGHT WING

- ✓ Right aileron/flap *Check*
- ✓ Right wing tip/Lights *Inspect*
- ✓ Right wing leading edge *Inspect*
- ✓ Fuel Sump *Drain*
- ✓ Right Tank Fuel Level/Cap *Check*
- ✓ Fuel Vent *Check*
- ✓ Right wing tie-down *Release*
- ✓ Right Wheel/Strut (4.5") *Check*
- ✓ Cabin air vent *Check*

### NOSE

- ✓ Oil *6 Qts Min*
- ✓ Cowling *Secure*
- ✓ Windshield *Clean/Secure*
- ✓ Propeller/Spinner *Undamaged*
- ✓ Air Inlets *Clear*
- ✓ Alternator Belt *Intact*

- ✓ Landing light *Inspect*
- ✓ Nose Wheel/Strut (3.25") *Check*
- ✓ Fuel Strainer *Drain*

### LEFT WING

- ✓ Cabin air vent *Check*
- ✓ Left wing leading edge *Inspect*
- ✓ Left wing tie-down *Release*
- ✓ Left Wheel/Strut (4.5") *Check*
- ✓ Fuel Sump *Drain*
- ✓ Left Tank Fuel Level/Cap *Check*
- ✓ Fuel vent *Unobstructed*
- ✓ Pitot tube *Unobstructed*
- ✓ Stall horn vane, *Check*
- ✓ Left wing tip/Lights *Inspect*
- ✓ Left aileron/flap *Check*

### EMPENNAGE

- ✓ Left leading edge stabilizer *Inspect*
- ✓ Stabilator/Rudder/Trim Tab *Inspect*
- ✓ Tail tie-down *Remove*
- ✓ Right leading edge stabilizer *Inspect*
- ✓ Fresh Air Inlet *Check*
- ✓ Baggage Door *Lock*
- ✓ Antennas (above and below) *Secure*
- ✓ Belly *No Excess Oil*

### ENGINE START

- ✓ Preflight *Complete*
- ✓ Seat *Adjust*
- ✓ Passengers *Brief* (Belts and Exits)
- ✓ Seats, Belts, Doors *Secure*
- ✓ Circuit Breakers *Check*
- ✓ Electric All Switches *Off* (except beacon *On*)
- ✓ Avionics Master *Off*
- ✓ Mixture—*Rich*
- ✓ Throttle  $\frac{1}{4}$ "
- ✓ Master *On*
- ✓ Fuel Pump *On*

- ✓ Brakes, *Test/Set*
- ✓ Propeller area "Clear!"
- ✓ Engine *Start*, Throttle *1000 RPM*
- ✓ Oil Pressure *Check*
- ✓ If no start, *Prime & Repeat*
- ✓ Nav/Taxi/Inst Lights *On* (night/bad weather)
- ✓ Avionics Master *On*
- ✓ Mixtures *Lean*
- ✓ Fresh Air Controls *Adjust*

### TAXI

- ✓ Frequencies *Set* (121.9 Ground, 118.3 Tower and 134.5 ATIS at PIE)
- ✓ Nav devices *Set*
- ✓ ATIS/ASOS/AWOS *Obtain*
- ✓ Altimeter *Adjust*
- ✓ Flaps *Retract*
- ✓ Both Fuel Tanks, *Test 1 Min*
- ✓ Brakes *Check*
- ✓ Heading Indicator, Compass, turn coordinator *Check*

### RUN-UP

- ✓ Parking Brake *Engage*
- ✓ Cabin Door/Window *Secure*
- ✓ Flight Controls *Check*
- ✓ Flight/Engine Instruments *Check*
- ✓ Mixture—*Full Rich*
- ✓ Fuel Selector *Fullest Tank*
- ✓ Throttle *2000 RPM* (ensure warm)
- ✓ Left/Right Mags,  $<175$  RPM *Drop*,  $<50$  RPM *Difference*
- ✓ Carb Heat, *Check for RPM Drop*, **Then Cold**
- ✓ Fuel Gauge *Sufficient*
- ✓ Fuel Pump *Off*, Fuel Pressure *Check*, **then Fuel Pump Back On**
- ✓ Engine Instruments/Vacuum *Recheck*
- ✓ Throttle *Idle*, then *1000 RPM*
- ✓ Mixture *Full Rich* (or as appropriate)
- ✓ Primer *Locked*
- ✓ Pitot Heat *As Required*

- ✓ Trim *Take-off*
- ✓ Flaps *0 – 25*
- ✓ Transponder Alt, Squawk *Check*
- ✓ Strobe lights *On*
- ✓ Parking Brake *Release*
- ✓ Frequency *Tower*

### TAKE-OFF

- ✓ Engine Instruments *Monitor* (before rotating—prepare to abort)
- ✓ Rotate *55* (With *10 – 25* Deg. Flaps, *Use 50*)
- ✓ Soft Field, *Use 25* Deg. Flaps
- ✓ Climb *79* Vy (*63* Vx)
- ✓ Retract flaps

### CRUISE CLIMB

- ✓ Mixture *Adjust*
- ✓ Fuel Pump *Off*
- ✓ Speed *90*
- ✓ Engine Instruments *Monitor*
- ✓ Flight Plan *Activate*

### CRUISE

- ✓ Power *Adjust* Cruise Setting
- ✓ Mixture *Lean*
- ✓ Engine/Flight Instruments *Monitor*
- ✓ Reset altimeter to local settings
- ✓ Switch fuel each  $\frac{1}{2}$  hour (Use **Electric Pump When Switching**)

### CRUISE DESCENT/APPROACH/LANDING

- ✓ Carb Heat *On*
- ✓ Throttle *Retard* (slowly)
- ✓ Mixtures *Enrichen*
- ✓ ATIS/ASOS/AWOS (or Unicom) *Obtain*
- ✓ Altimeter *Reset*
- ✓ Seat Belts *Secure*
- ✓ Landing lights *On*
- ✓ Mixture *Full Rich* (or as appropriate)
- ✓ Fuel Pump *On*
- ✓ Fuel Selector, *Fullest Tank*
- ✓ Speed *Reduce* below *103*, Flaps *Full* (or as appropriate)
- ✓ Short Final *65*

### AFTER LANDING

- ✓ Flaps *Retract*
- ✓ Strobes/Landing Lights *Off*
- ✓ Fuel Pump *Off*
- ✓ Carb Heat *Cold*
- ✓ Transponder *STDBY*

### SECURING

- ✓ Avionics Master *Off*
- ✓ All Electric Switches *Off*
- ✓ Mixture—*Cut-off*
- ✓ Ignition/Master *Off*
- ✓ Gust Lock *Install*
- ✓ **CLOSE FLIGHT PLAN**
- ✓ Hobbs, *Log*
- ✓ Aircraft *Lock*
- ✓ Tie-downs/Chocks *Secure*

### SPEEDS

Vy 79, Vx 63, Vs 50, Vs<sub>0</sub> 44, Vfe: 103, Va: 111 (lower when lightly loaded), Vno 126, Vne 160, Vg: 73

### WEIGHTS

Max Take-off Weight: 2440

## EMERGENCY PROCEDURES (SEE POH, A FEW ARE LISTED HERE)

### RADIO FAILURE

- ✓ Frequency, Volume, Squelch Headset *Check*
- ✓ Transponder *7600*
- ✓ Cell Phone *Use* (if possible)
- ✓ Pattern *Enter* (look for light signals)

### ATC LIGHT SIGNALS

**Steady green**—cleared take-off/landing  
**Flashing green**—cleared taxi (ground) or return for landing (air)  
**Steady red**—Give way to traffic

**Flashing red**—Taxi off runway (ground) or airport not safe for landing (air)

Flashing white—return to starting point (ground)  
 Alternately flashing red/green—use caution

### ENGINE FAILURE (IMMEDIATELY AFTER TAKE-OFF)

- ✓ Pitch *63*
- ✓ *Troubleshoot*, altitude permitting
- ✓ Land *Straight Ahead*
- ✓ Cabin Door *Unlatch*
- ✓ Mixture *Cut-off*, Fuel Selector *Off*
- ✓ Magnetos/Master *Off*
- ✓ Braking *Maximum* (avoid obstacles)

### ENGINE FAILURE (MID-FLIGHT)

- ✓ Pitch *73 Kts*
- ✓ Flaps *Retract*
- ✓ Landing site *Select*
- ✓ Wind Heading (for landing site) *Ascertain*
- ✓ Electric Fuel Pump *On*
- ✓ Mixture *Rich*
- ✓ Carb Heat *On*
- ✓ Primer *In/Locked*
- ✓ Fuel Selector, *Switch Tanks*
- ✓ Engine Instruments, *Diagnose*
- ✓ Ignition *Engage* (pitch down for wind-milling)
- ✓ If no restart, *try L or R magnetos only*
- ✓ If no restart, *Recycle Magnetos On/Off*
- ✓ If no restart, *Maintain 73 Kts*
- ✓ Communicate *121.5* (or current frequency)
- ✓ Transponder *7700*
- ✓ Seatbelts/Harnesses *Fully Tightened*
- ✓ Fuel Selector *Off/Mixture Idle*
- ✓ Ignition *Off*
- ✓ Master *Off* (when landing assured)
- ✓ Doors *Cracked Ajar*
- ✓ Flaps *as needed*
- ✓ Airspeed on final *63 Kts*
- ✓ Touchdown *Slightly Tail Low*
- ✓ Brakes *Apply Heavily*

These checklists include *opinions and recommendations* by its author. Pilots are required to verify all information with official sources prior to flight. Neither American Flying Adventures nor Daystar Leasing LLC warrant or represent the accuracy of this data. For correct operation always use the checklists in the original POH. Revised: March 15, 2005