

**FREQUENCIES**

**BED**  
 ATIS.....124.6  
 GROUND.....121.7  
 TOWER.....118.5  
 BOS APP...124.4  
 Signature ..... 781-274-0010 / 130.8

**OWD**  
 ATIS.....119.95  
 GROUND...121.8  
 TOWER.....126.0  
 BOS APP...124.1

**ASH**  
 ATIS.....125.1  
 GROUND...121.8  
 TOWER.....133.2  
 BOS APP...124.9  
 Practice area-ALL ..... 123.5  
 Emergency (guard) .....121.5

**PREFLIGHT**

**COCKPIT SAFETY CHECK**

**Magnetos ..... OFF, KEYS OUT**  
**Mixture ..... CUTOFF**  
**Throttle ..... CLOSED**  
 Hobbs & tach ..... RECORD  
 Documents (AR(R)OW)..... CHECK  
 Flight controls ..... RELEASE  
 Parking brake-RELEASED/AS REQUIRED  
 Avionics/Radio master ..... OFF  
 Electrical switches..... OFF  
**Strobes.....ON**  
 Master switch **PROP CLEAR** ..... ON  
 Fuel gauges ..... CHECK  
 Annunciator panel.....TEST  
IF IFR OR NIGHT Aux vacuum pump ON FOR 1 SECOND. CHECK  
 Exterior lights (Pitot heat-ONLY IF IMC)...ON & CHECK  
 Stall horn ..... CHECK  
 Exterior lights & Pitot heat..... OFF  
 Master switch ..... OFF  
 Altimeter ..... FIELD ELEVATION  
 Magnetic compass ..... CHECK  
 Pitot & static drains..... DRAIN  
 Flight controls ..... CHECK  
 Flaps..... EXTEND  
 Fire extinguisher (if installed).... CHECK  
 Windows..... CHECK

**RIGHT WING**

General condition ..... CHECK & CLEAR  
 Flap ..... CHECK  
 Aileron ..... CHECK  
 Wingtip ..... CHECK  
 Tie down/chock ..... REMOVE  
 Stall strip..... CHECK INSTALLED

**PIPER WARRIOR III**

Fuel tank vent..... CHECK  
 Fuel tank sump..... DRAIN & NO DRIPS  
 Fuel tank quantity ..... CHECK  
 Fuel cap & Vent ..... CHECK  
 Main gear & Brake ..... CHECK  
 Fresh air inlet..... CHECK

**NOSE**

General condition & leaks ..... CHECK  
**Right engine compartment ... CHECK**  
 Oil (max 6, min 5.5) ..... CHECK  
 Cowling Latches-L & R..... SECURE  
 Propeller & spinner ..... CHECK  
 Alternator belt tension..... CHECK  
 Air inlets..... CHECK  
 Exhaust pipes (Hot?)..... SECURE  
 Nose gear..... CHECK  
 Chock (If in place) ..... REMOVE  
**TOW BAR...REMOVED AND STOWED**  
**Left engine compartment .... CHECK**  
 Cowling Latches-L & R..... SECURE  
 Fuel strainer.....DRAIN & NO DRIPS

**LEFT WING**

General condition ..... CHECK & CLEAR  
 Fresh air inlet..... CHECK  
 Main gear & Brake ..... CHECK  
 Fuel tank vent ..... CHECK  
 Fuel tank sump.....DRAIN & NO DRIPS  
 Fuel tank quantity ..... CHECK  
 Fuel cap & Vent ..... CHECK  
 Tie down/chock (If in place).... REMOVE  
 Pitot Tube 3 Holes ..... CHECK  
 Wingtip ..... CHECK  
 Aileron ..... CHECK  
 Flap ..... CHECK

**LEFT FUSELAGE**

General condition ..... CHECK  
 Antennas ..... CHECK  
 Fresh air inlet..... CLEAR

**EMPENNAGE**

Stabilator ..... CHECK & CLEAR  
 Trim tab & Nut ..... CHECK & CLEAR  
 Rudder ..... CHECK & CLEAR  
 Antennas ..... CHECK  
 Tie down ..... REMOVE

**RIGHT FUSELAGE**

General condition ..... CHECK  
 Antennas ..... CHECK  
 Baggage area & Ext Start Door  
 SECURE Baggage door.... UNLOCKED & LATCHED

**BEFORE ENGINE START**

Tail Lock.....IN BAGGAGE OR COCKPIT  
 Flaps..... RETRACT  
 Passenger briefing ..... COMPLETE  
 Seats & seat belts. UPRIGHT & SECURE  
 Fuel selector. **LOWEST or OTHER TANK**  
 Circuit breakers..... CHECK  
 Strobes ..... ON  
 Carb heat ..... OFF  
 Brakes ..... SET & HOLD

**ENGINE START**

Mixture ..... RICH  
 Throttle..... ¼ INCH COLD, ½ INCH HOT  
 Master & Alt switches.....ON  
 Fuel pump ..... ON  
 Prime:**3-5 SECS IF COLD, 2 IF WARM, 0 If HOT**

**Propeller area..... CLEAR**

Starter ..... ENGAGE  
 Throttle.800 RPM (No Higher Than 1000)  
 Oil pressure ..... CHECK  
 Fuel pump ..... OFF  
 Mixture .....LEAN

**BEFORE TAXI**

Avionics/Radio master.....ON  
 Transponder (1200 or assigned).....ALT  
 Radios..... SET  
 ATIS ..... CHECK  
 Flight instruments ..... SET  
 Navigation ..... SET FLT PLAN  
 Radio ..... CLNC/GROUND/CTAF  
 #2 Radio.....MONITOR 121.5  
 Lights .....AS APPROPRIATE

**TAXI**

Parking Brake.....RELEASE  
 Brakes ..... CHECK  
 Flight instruments ..... CHECK

**ENGINE RUNUP**

Brakes .....SET & HOLD  
 Oil Temp.....IN THE GREEN  
 Fuel selector .....OTHER TANK  
 Mixture (below 5000') ..... RICH  
 Throttle..... 2000 RPM  
 Mags (Max drop 175, diff 50).... CHECK  
 Vacuum (4.8-5.2") ..... CHECK  
 Engine gauges ..... CHECK  
 Annunciator panel ..... TEST  
 Load meter..... Check  
**ALL LTS, FUEL PUMP, & pitot ON / OFF**

Carb heat (Approx. 75 RPM drop-**NO RISE**) ..... ON  
 Throttle (min 500 RPM) ..... IDLE  
 Carb heat ..... OFF  
 Throttle..... 1000 RPM  
 Flight controls ..... CHECK

**BEFORE TAKEOFF**

Fuel pump .....ON  
 Pitot heat.....AS REQUIRED  
 Flight instruments ..... CHECK  
 Trims ELEVATOR & RUDDER .. TAKEOFF  
 Flaps..... NORMAL 0°, SHORT/SOFT 25°  
 Seats & seat belts. UPRIGHT & SECURE  
 Door-**2 LATCHES** & window ....SECURE  
 Lights .....AS APPROPRIATE  
 Takeoff briefing ..... COMPLETE  
 Radio ..... TOWER/CTAF  
 MIXTURE..... RICH

**PIPER WARRIOR III**

**TAKEOFF**

Mixture (below 5000') .....RICH  
 Throttle ..... FULL  
 Power (**2330-2430 RPM=STATIC**) ...CHECK  
 Engine gauges..... CHECK  
 Airspeed ..... CHECK  
 Rotate (0°/25°)..... 55/52 KIAS

**CLIMB**

Flaps...RETRACT AT SAFE SPEED (65KIAS)  
 Airspeed (cruise climb) ...87KIAS/500'/MIN  
 Fuel pump .....OFF- CHECK PRESSURE  
 Oil pressure & Temp ..... CHECK

**CRUISE**

Power ..... AS REQUIRED  
 Mixture..... LEAN AS REQUIRED

**FUEL TANK SWITCH**

Fuel pump ..... ON  
 Fuel selector ..... DESIRED TANK  
 Fuel pressure ..... CHECK  
 Fuel pump ..... OFF

**DESCENT**

Power ..... AS REQUIRED  
 Mixture..... AS REQUIRED  
 Carb heat ..... AS REQUIRED  
 Seats & seat belts. UPRIGHT & SECURE

**APPROACH & LANDING**

Downwind.....90 KTS  
 Fuel pump ..... ON  
 Fuel selector ..... FULLEST TANK  
 Mixture (below 5000') .....RICH  
 Carb heat (if on)..... OFF SHORT FINAL  
 Flaps (<103 KIAS) ..... AS REQUIRED  
 Landing (0°) ..... 70 KIAS  
 Landing (40°) ..... 63 KIAS

**AFTER LANDING & CLEAR OF RUNWAY**

Radio .....GROUND/CTAF  
 RPM.....1000  
 Lights..... AS APPROPRIATE  
 Flaps.....RETRACT  
 Fuel pump ..... OFF  
 Carb heat ..... OFF  
 Mixture..... LEAN  
 Pitot Heat.....OFF  
 Transponder.....1200

**SHUTDOWN**

Call for fuel .....AS REQUIRED  
 Avionics/Radio master ..... OFF  
 Throttle .....IDLE  
 Mixture..... CUTOFF

**WHEN PROP STOPS**

Magnetos .....OFF, KEY OUT  
 Electrical switches ..... OFF  
 Strobes.....LEAVE ON  
 Master & Alt switches ..... OFF  
 Hobbs & tach ..... RECORD  
 Flight controls..... SECURE  
**PARKING BRAKE..... RELEASED**  
 Tie downs Chocks if no tie downs...in place / SECURE  
 Cover ..... ON

**SPEEDS**

Vg (0° Flaps) ..... 73 KIAS  
 Glide distance approx 1 NM per 550'  
 Va (2440/1531 lbs) ..... 111/88 KIAS  
 Vfe .....103 KIAS  
 Vy (0°)..... 79 KIAS  
 Vx (0°)..... 63 KIAS  
 Vx (25°)..... 57 KIAS  
 Vs0 ..... 44 KIAS  
 Vs1 ..... 50 KIAS

**SPECS**

Usable fuel tabs/full ..... 34g/48g  
 Taxi fuel ..... 1.0g  
 Climb fuel .....12.0 GPH  
 Crosswind.....17 KTS  
 Cruise 3000'@65% ..2320 RPM/103KTS

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**EMERGENCIES NOTE:**

**NOT ALL EPS ARE HERE. CHECK POH FOR ADDITIONAL PROCEDURES**

**ENGINE FIRE DURING START**  
 Starter ..... CONTINUE CRANKING  
 Mixture .....CUTOFF  
 Throttle ..... OPEN  
 Fuel pump..... OFF  
 Fuel selector ..... OFF  
 Evacuate to rally point

**ENGINE POWER LOSS IN FLIGHT**

Fuel selector..... **FULLEST TANK**  
 Fuel pump ..... **ON**  
 Mixture..... **RICH**  
 Carb heat..... **ON**  
 Magnetos..... **BOTH**  
 Engine gauges ..... **CHECK**

**IF ENGINE DOES NOT START**

**POWER OFF LANDING**

Trim for best glide ..... 73 KIAS  
 Landing area .....IDENTIFY  
 ELT.....ACTIVATE  
 Radio-121.5 / TOWER / APCH. ....MAYDAY  
 Transponder ..... 7700  
 Final approach (40°) ..... 63 KIAS  
 Magnetos..... OFF  
 Master switch ..... OFF  
 Alternator switch..... OFF  
 Fuel selector..... OFF  
 Mixture.....CUTOFF  
 Seatbelts .....SECURE  
 Door ..... UNLATCH

**ENGINE ROUGHNESS**

Carb heat..... ON  
**If still rough after ONE MINUTE:**  
 Carb heat..... OFF  
 Mixture..... ADJUST TO SMOOTHEST  
 Fuel pump ..... ON  
 Fuel selector.....SWITCH TANKS  
 Engine gauges ..... CHECK  
 Magnetos.. CHECK/SELECT SMOOTHEST  
 Mixture..... RICH  
 Land ..... AS SOON AS PRACTICAL

**ENGINE FIRE IN FLIGHT**

Fuel selector..... OFF  
 Throttle .....CLOSED  
 Mixture ..... CUTOFF  
 Fuel pump ..... OFF  
 Heater & defroster..... OFF  
 Speed ...INCREASE TO EXTINGUISH  
 Land .....IMMEDIATELY

**LOSS OF FUEL PRESSURE**

Fuel pump ..... ON  
 Fuel selector.CHECK ON FULL TANK

**ELECTRICAL (CABIN) FIRE**

Master switch ..... OFF  
 Alternator switch..... OFF  
 Vents ..... OPEN  
 Heater & defroster..... OFF  
 Fire extinguisher .... AS NECESSARY  
 Land ..... AS SOON AS PRACTICAL