



# RHODOS AEROCLUB

## P28A (PIPER WARRIOR) CHECKLIST SX-AOY

<p><b><u>PRE START</u></b></p> <p>Loose items.....stowed          Seat .....adjusted          Hatches and harnesses ..... secure          Trims ..... through range set to take off          Flaps .....checked, set zero          Park Brake .....on          Fuel.....on left tank          Carburetor Heat ..... off          Mixture ..... idle cut off          Throttle .....closed          Instruments ..... checked and set          Avionics..... off          Switches..... off          Master.....on          Circuit breakers .....in          Controls ..... full and free, correct sense</p> <p><b><u>START CHECKS</u></b></p> <p>Mixture .....rich          Throttle..... 1 cm open          Fuel pump..... on, check press &amp; off          Prime ..... Cold – 5 times, Hot – 0 times          Check..... “Clear Prop”          Magnetos ..... start</p> <p><b><u>AFTER START</u></b></p> <p>Throttle ..... set 1000 rpm          Oil pressure..... green within 30 secs          Alternator..... on          Ammeter ..... positive charge          Suction..... within limits          Gyro instruments ..... erection and sync          Annunciators..... test &amp; out          Avionics..... on          Beacon ..... on          Transponder.....STBY</p> <p><b><u>TAXI CHECKS</u></b></p> <p>Brakes.....checked          Instruments .....turning checks</p>	<p><b><u>RUN-UP CHECKS</u></b></p> <p>Park brake ..... on          Fuel selector..... check tank          Oil temp &amp; pressure .....green arc          Lookout .....all clear          Throttle.....set 2000 rpm          Oil temp &amp; pressure .....green arc          Magnetos .....left, both, right, both          Carb Heat .....on, check, drop then off          Ammeter ..... positive charge          Suction ..... 4.8” – 5.1” Hg          Slow idle ..... smooth running          Throttle .....set 1000 rpm</p> <p><b><u>PRE T/O VITAL ACTIONS</u></b></p> <p>T.....trims set, throttle friction adjusted          M..... mixture rich          P..... primer – locked          F..... fuel on, contents checked          F.....3 stages flap checked          I.....instruments checked and set              auto pilot checked          S..... switches, as required          C ..... controls full &amp; free          H ..... hatches &amp; harnesses secure</p> <p><b><u>PRE LINE UP CHECKS</u></b></p> <p>F..... fuel pump on, flaps set          I..... instruments, DG to runway heading          S..... switches, lights as required          T..... transponder to ALT</p> <p><b><u>AFTER T/O CHECKS</u></b></p> <p>Flaps..... retracted          Power ..... set as required          Oil temp &amp; pressure .....green arc          Fuel pump .....off, pressure checked</p>	<p><b><u>PRE MANOEUVRE CHECKS</u></b></p> <p>H..... Height          A..... Airframe          S.....Security          E.....Engine          L..... Location          L..... Lookout</p> <p><b><u>PRE LANDING CHECKS</u></b></p> <p>B ..... Brakes, check pressure and off          U..... Undercarriage down          M..... Mixture rich          F ..... Fuel pump on, press &amp; contents          O..... Oil Temp &amp; Pressure          C..... Carb Heat on          H..... Hatches &amp; Harnesses secure</p> <p><b><u>AFTER LANDING CHECKS</u></b></p> <p>Flaps .....retract          Fuel Pump ..... off          Strobes..... off          Transponder.....STBY          Radio ..... to SMC</p> <p><b><u>SHUTDOWN</u></b></p> <p>Park brake..... on          Throttle ..... set 1000 rpm          Avionics ..... off          Beacon..... off          Magnetos ..... check for RPM drop          Temp and pressure..... green arc          Alternator ..... off          Mixture ..... idle cut off          Master..... off          Magnetos ..... off, key out          Park brake.....release if tying down</p> <p><b><u>POST FLIGHT</u></b></p> <p>Controls .....secure          Hatches ..... secure          Tie downs .....secured</p>	<p><b><u>RADIO FREQUENCIES</u></b></p> <p>Diagoras Tower..... 118.2MHz          Diagoras radar ..... 127.25 MHz          Diagoras ATIS ..... 126.35 MHz</p> <p><b><u>OIL &amp; FUEL</u></b></p> <p>Oil Capacity.....8qt          Minimum Oil.....6qt          Fuel Capacity.....50 US. Gal          Useable Fuel.....48 US. Gal</p> <p><b><u>SPEEDS</u></b></p> <p>V<sub>SO</sub>.....44 kts          V<sub>S1</sub>.....50 kts          V<sub>R</sub>.....55 kts          V<sub>X</sub>.....63 kts          V<sub>Y</sub>.....79 kts          V<sub>NO</sub>.....126 kts          V<sub>NE</sub>.....160 kts          V<sub>A</sub>.....111 kts</p> <p>Approach.....65 kts          BEST GLIDE.....73 kts</p>
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<u>EMERGENCY PROCEDURES</u>		<u>P28A (PIPER WARRIOR) DATA</u>	
<p><b><u>ENGINE FIRE DURING START</u></b></p> <p>Starter ..... crank engine            Mixture ..... idle cut off            Throttle ..... open            Electric fuel pump ..... off            Fuel selector ..... off</p> <p>Abandon if fire continues</p> <p><b><u>ENGINE FAILURE IN FLIGHT</u></b></p> <p>INITIAL ACTIONS:</p> <p><b>CHECK FOR FIRE</b></p> <p>Throttle ..... set 1/3 position            Carburetor Heat ..... on            Mixture ..... rich            Fuel pump ..... on            Fuel selector ..... change tanks</p> <p><b>ASSESS WIND            SELECT FIELD            MAKE PLAN</b></p> <p>TROUBLE CHECKS:</p> <p>Fuel ..... on contents checked            Mixture ..... through range, set rich            Oil ..... temps and pressure            Switches ..... check magnetos            Throttle ..... through range set 1/3 position</p> <p><b>MAYDAY CALL</b></p> <p>SHUTDOWN CHECKS:</p> <p><b>B</b>rakes ..... check pressure and off  <b>U</b>ndercarriage ..... down  <b>S</b>witches ..... all off, fuel off  <b>H</b>atches and harnesses ..... secure</p>	<p><b><u>ENGINE FIRE IN FLIGHT</u></b></p> <p>Mixture ..... idle cut-off            Throttle ..... closed            Fuel Pump ..... off            Fuel Selector ..... off            Heater ..... off            Defroster ..... off</p> <p>Proceed with  <b>POWER OFF LANDING</b></p> <p><b><u>LOSS OF OIL PRESSURE /            HIGH OIL TEMPERATURE</u></b></p> <p>Land as soon as possible and investigate cause.</p> <p>Prepare for power off landing</p> <p>For other emergency procedures refer to section 3 of the Pilots Operating Handbook.</p>	<p><b><u>AIRSPEEDS</u></b></p> <p>Basic Stall Speed (<math>V_{S1}</math>) ..... 50 KIAS            Stall with Flap (<math>V_{S0}</math>) ..... 44 KIAS            Best Climb Angle (<math>V_X</math>) ..... 63 KIAS            Best Climb Rate (<math>V_Y</math>) ..... 79 KIAS            Cruise Climb (Normal) ..... 87 KIAS            Flap Limit Speed (<math>V_{FE}</math>) ..... 103 KIAS            Threshold ..... 65 KIAS            Manoeuvre Speed (<math>V_A</math>) ..... 88 - 111 KIAS            Flight Planning TAS ..... 105 KTAS</p> <p>Maximum Cruising (<math>V_{NO}</math>) ..... 126 KIAS            Never Exceed (<math>V_{NE}</math>) ..... 160 KIAS            Best Glide ..... 73 KIAS            TOSS ..... 64 KIAS            Base ..... 70 KIAS</p> <p>Maximum Crosswind ..... 17 KIAS</p>	<p><b><u>WEIGHT LIMITATIONS</u></b></p> <p>Max Takeoff Weight ..... 1055 Kg ..... Lb            Empty Weight: Refer flight manual            Max Baggage Weight</p> <p><b><u>FUEL</u></b></p> <p>Type: 100 Octane Avgas (green) or 100 LL (blue)            Quantity: Total 189 lt, Useable 181 lt (fuel flow at 75%)            Typical Consumption: 36 lt per hour            Endurance with 45 min reserve intact: 5 hrs</p> <p><b><u>POWER SETTINGS</u></b></p> <p>Max RPM ..... <b>2700</b> RPM            Static RPM</p> <p><b><u>ENGINE</u></b></p> <p>Avco Lycoming IO-320 D2A or D3G            4 cylinder, horizontally opposed, direct drive, air cooled, fuel injected            Output: 160 Hp @ 2700 rpm</p> <p><b><u>OIL</u></b></p> <p>Type: Aviation grade D100            Quantity: Max 8 US quarts, Min 6 US quarts (Company reqts)</p>

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