Piper Arrow 747JS

Preflight checklist………… Complete

**Starting Engine**

Brakes ………………………. Set

Propeller control ………… Full Forward

Fuel tank As desired

**Cold Start**

Throttle ……………………. Open ½’

Master switch ……………. On

Beacon ……………………… On

Electric fuel pump ……… On

Mixture …………………….. Rich until

 indication on fuel flow meter is noted

Mixture …………………… Idle cut off

Prop area …………………… Clear

Ignition ……………………. Start

Mixture ……………………. Rich

Throttle ……………………. As desired

Electric fuel pump ……… Off

**Hot Start**

Throttle ……………………. Open ½”

Master switch …………… On

Beacon ……………………… On

Electric fuel pump ……… On

Mixture …………………….. Idle cut off

Ignition …………………….. Start

Mixture …………………….. Full

Throttle …………………….. As desired

**Flooded Engine**

Throttle ……………………. Full

Master switch …………… On

Beacon …………………….. On

Electric fuel pump ……… Off

Mixture ……………………. Idle cut off

Ignition ……………………. Start

Mixture ……………………. Rich

Throttle ……………………. As desired

**Engine run up**

Controls …………………… Free/Correct

Throttle …………………… 2000 RPM

Prop ……………………… Cycle (3)

Magnetos ………………….. Check (125/50)

Oil temp/pressure ……. Check

Vac/Alt/Oil light .………. Test

Throttle …………………….. 1000 RPM

Quadrant Friction knob.. Set

Elevator trim ………….. Check

**Takeoff**

Fuel …………………………. Proper tank

Electric fuel pump ……… On

Engine gauges …………. Check

Prop ………………………. Set

Mixture …………………….. Set

Flaps ……………………… Set

Door ………………………. Latched

**Climb**

Throttle/Prop ……………. 25/25

Fuel Pump ………………… Off

Engine gauges …………… Check

**Cruise**

Throttle/Prop …………… Set

Mixture …………………… Lean

Engine gauges …………… Check

Fuel ………………………. Proper Tank

**Approach and Landing**

Fuel ……………………….... Proper Tank

Electric fuel pump ……... On

Mixture …………………… Set

Prop ……………………… Set full forward

Gear ………………………… Down & locked (130 kts max)

Flaps ……………………….. Set

 (109 kts max)

**Engine shutdown**

Flaps ……………………….. Retract

Electric fuel pump …….. Off

Avionics …………………… Off

Prop ……………………… Full rpm

Magneto check …………. Complete

Mixture …………………….. Idle cut off

Throttle …………………….. Full aft

Ignition/Master …………. Off

Beacon ……………………… Off

 KNOTS MPH

VR  52-61 60-70

VY 87 100

VX 7890

Enroute climb 96 110

VFE 109125

Gear retract 109 125

Gear extend 130 150

VSO 55 63

VS1 60 69

Approach 78 90