

**SKYHAWK – Analog Panel – CHECKLIST**

Preflight Exterior	Nose Gear	Hot Engine Start
<p><b>Cockpit</b></p> <p>A.R.O.W. documents – On board                      Control lock – Out                      Pitot Tube Cover – OFF                      Fuel Selector – BOTH                      Fuel Shutoff – IN                      Master switch – ON                      Avionics Fan – ON                      Flaps – Fully extended                      Fuel gauge – Check level                      All lights – Check                      Pitot Heat – Check if necessary                      All switches – OFF</p> <p><b>Empennage</b></p> <p>Baggage Door – Locked                      Vertical stabilizer – Undamaged                      Horizontal stabilizer – Undamaged                      Elevator – Free and secure                      Rudder cables – Good condition                      Trim tab – Cotter pin secure                      Tie-down – Remove</p> <p><b>Antennas</b></p> <p>Comm antennas – Secure                      Transponder antenna – Attached                      ELT antenna – Secure                      GPS antenna – Secure                      VOR antenna – Secure</p> <p><b>Right Gear</b></p> <p>Tire – Inflated, no bald spots                      Wheel chocks - Remove                      Brakes – No fluid leaks                      Brake pads – Thickness sufficient                      Gear leg – Good condition</p> <p><b>Right Wing</b></p> <p>Flap – Down &amp; secure                      Aileron – Free &amp; secure                      Light fixture – Secure                      Wing tip – Undamaged                      Wing leading edge – Undamaged                      Tie down – Remove                      Fuel in tank – Sufficient for flight                      Cabin air vents – Not blocked                      Fuel – Test quality (5)</p> <p><b>Cowling</b></p> <p>Oil – Check Level (6 - 7qt)                      Fuel – Test Quality (3)                      Prop blades – Good condition                      Alternator Belt – Good condition                      Air Intakes – Not blocked                      Cowlings – Secure                      Static Port - Clear</p>	<p>Tire – Inflated, tread                      Cotter pins – Check                      Gear strut – Inflated</p> <p><b>Left Wing</b></p> <p>Fuel in tank – Sufficient for flight                      Cabin air vents – Not blocked                      Pitot tube – Clear &amp; secure                      Tie down – Remove                      Fuel vent – Clear                      Wing leading edge – Undamaged                      Wing tip – Undamaged                      Light fixture – Secure                      Aileron – Free &amp; secure                      Flap – Down &amp; secure                      Fuel – Test quality (5)</p> <p><b>Left Gear</b></p> <p>Tire – Inflated, no bald spots                      Wheel chocks – Remove                      Brakes – No fluid leaks                      Brake pads – Thickness sufficient                      Gear leg – Good condition                      360° Walk around, tie downs and chocks/ Tow Bar</p> <p style="text-align: center;"><b>Preflight Interior</b></p> <p><b>Passenger Briefing</b></p> <p>Seatbelt use • Exit procedure                      Com use • Motion sickness                      Look for traffic                      Fire extinguisher use</p> <p>Alternate Static – Check                      Parking brake – Set                      Seat – Adjusted                      Master – ON                      Beacon – ON                      Nav lights – ON (ADS-B)                      Circuit breakers – IN                      Fuel selector – BOTH                      Insert key – Do not turn</p> <p><b>Cold Engine Start</b></p> <p style="background-color: #e6f2ff;"><b>IF OIL TEMP NOT IN GREEN</b></p> <p>Mixture – RICH                      Throttle – Cracked                      Fuel pump – ON (3-5 gph) then OFF                      Mixture - LEAN                      Check Surroundings                      Shout – “CLEAR PROP!”                      Starter – Engage (Max 10 Sec.)                      Mixture – ENRICHEN                      Oil pressure – Green                      Throttle – 1200 RPM                      Mixture – Lean for max RPM                      Throttle – 900 RPM                      Avionics – ON • Headset – Check</p>	<p>Throttle – Cracked                      Check surroundings                      Shout – “CLEAR PROP!”                      Starter – Engage (Max 10 Seconds)                      Mixture – ENRICHEN                      Oil pressure – Green                      Throttle – 1200 RPM                      Mixture – Lean for max RPM                      Throttle – 900 RPM                      Avionics – ON • Headset – Check</p> <p style="text-align: center;"><b>Pre-taxi/ Taxi</b></p> <p>Flaps – UP (visually verify)                      Transponder – Alt 1200                      GPS – ON • ATIS – Copy                      Altimeter – Set and verified                      Contact ground control                      Taxi Light - ON • Brakes - Test                      Gyro Instruments – Check</p> <p>KSMO ATIS                    119.15                      KSMO Ground                121.90                      KSMO Tower                 120.10                      SOCAL Approach    125.20 or 124.30</p> <p style="text-align: center;"><b>Run-Up</b></p> <p>Parking brake – Set                      Fuel selector- BOTH                      Trim – Set for takeoff</p> <p><b>Pilot Briefing</b></p> <p>Positive exchange of controls                      Plan for power loss on takeoff                      (see “Power Loss on Takeoff”)                      Route of flight (GPS Set)</p> <p><b>Run-Up</b></p> <p>Flight Controls – Free &amp; Correct                      Annunciator Lights – Check                      Instruments – Check                      Oil Temperature – 100° F                      Mixture – Best Power                      Power – 1800 RPM                      Magneto left – Check *                      Magneto right – Check *                      (*RPM Max drop 150/Max diff 50)                      Vacuum – Check                      Amps/ Volts – 28v                      Oil Temperature – Green                      Oil Pressure – Green                      Power – Idle check (575 - 625 rpm)                      Power – 900 RPM                      Mixture – Lean for taxi                      Throttle friction                      Transponder – Set                      Contact ground control</p> <p style="text-align: center;"><b>Holding Short</b></p> <p>Doors &amp; Windows - Locked                      Flaps – Set for takeoff                      Trim - Set for takeoff                      Fuel pump - OFF                      Contact tower (KSMO 120.10)</p>

SKYHAWK – Analog Panel – CHECKLIST		
<b>Taking the Active Runway</b>	<b>Descent</b>	<b>Emergency Procedures</b>
<i>The following items should be done by memory every time pilots taxi onto a runway.</i>	Power – Set for descent rate	<b>Power Loss in Flight</b>
Landing Light – ON	Pitch – Constant airspeed	<b>Airspeed – Best glide: 68 KIAS</b>
Strobe Light – ON	Strobe Lights – ON	<b>Best Field – Choose, fly towards</b>
Check final – Clear	Landing Light – ON	plan approach (based on wind)
Check runway – Clear	-within 10 miles of an airport	<b>Checklist – 7 Up:</b>
Check doors & windows – Locked	ATIS – Copy	Fuel Selector – BOTH
Fuel Selector – BOTH	Mixture -- Enrichen	Fuel Shutoff – IN
Mixture – RICH	<b>Go-Around</b>	Mixture – As required
Engine Gauges – Green	Power – Full	Throttle – Cracked
<b>Power Loss on Takeoff</b>	Pitch for best climb (Vy) – 74 KTS	Fuel Pump – ON
<b>On Ground</b>	Flaps – Retract to 20° immediately	Master – ON
Throttle – Idle	Then retract in stages	Ignition – Attempt restart if prop stopped / Cycle mags
Brakes – Apply	Announce – “Going around”	<b>Declare:</b>
Flaps – Up	<b>Pre-Landing</b>	Squawk – 7700 IDENT
Aircraft – Stop	Fuel Selector – BOTH	Mayday – 121.50 or current frequency
Ignition – OFF	Mixture – RICH	<b>Engine – Shutdown</b>
<b>Below 800 Feet AGL</b>	Landing Light - ON	Fuel shutoff valve – OUT
Lower nose abruptly - Pitch 68kts	Strobe Lights – ON	Mixture – Full Lean
Fuel Shutoff Valve – OFF	Power – 1500	Ignition – OFF
Mixture – Cutoff	Pitch – To slow to Vfe	<b>Flaps – As required</b>
Ignition – OFF	– 110 Kts for 10°	<b>Get Ready</b>
Flaps – Full	Flaps – As necessary	Seatbelts – Tighten
Master – OFF	Pitch for approach speed of 75 Kts	Sunglasses, headset – Remove
Land straight ahead	Trim to relieve control pressures	Passenger – Secure
Do not attempt to return to Runway	<b>Clear of Runway</b>	Master switch – OFF (Final)
<b>Above 800 Feet AGL</b>	Trim – Set for takeoff	Warning: A, B, C <b>much</b> more important than D, E, F, G. Fly the Plane first.
Note winds/ MSL altitude	Transponder – 1200	Always assume engine will not restart.
Land on runway or golf course	Flaps – Up	
<b>Climb</b>	Mixture – LEAN for taxi	
Pitch for airspeed (75 - 85kts)	Landing Light – OFF	
Power – FULL	Taxi Lights– As required	
Trim – Relieve control pressure	Strobe Lights – OFF	
Engine Instruments – Monitor	Contact ground control	
Passing 3000MSL – Lean	<b>Shut Down</b>	<b>Electrical Fire</b>
<b>Cruise</b>	Avionics – OFF	Master – OFF
Power – 2200 – 2400	Throttle – 1000RPM	All switches – OFF
Trim – Relieve control pressure	Ignition – Cycle • Mixture – Cutoff	Cabin heat – OFF
Temperatures and pressures – Monitor	Mags – OFF • Key – OUT	Air vents – Closed
Mixture – Lean	Master/Lights-OFF <b>EXCEPT</b> Beacon	Fire Extinguisher – As required
H.I. - Aligned with Compass	Fuel Selector – Right or Left	Land – As soon as practical
	Hobbs & Tach record	Cabin – Ventilate
	<b>Tie Down/Secure</b>	<b>Engine Fire</b>
	Chocks – Replace	Fuel Shutoff Valve - OUT
	Tie downs – Attach	Throttle – Full Open
	Controls – Secure	Mixture – Full Lean
	Pitot tube cover – ON	Ignition – OFF, when engine stops
<b>Pre-maneuver</b>	<b>V Speeds</b>	Emergency descent Vne – Altitude and weather permitting
<b>Performed prior to every maneuver. Memorize this checklist.</b>	Vso – 40	
<b>C.E.R.R.C.A.</b>	Vs1 – 48	<b>Comm Failure</b>
Clearing turn(s)	Vr – Variable	Troubleshoot
Emergency landing area	Vx – 62	Squawk – 7600 (If able)
Radio – Announce position	Vy – 74	Proceed to nearest airport
Reference point -Airspeed, heading, altitude	Vfe – 110 (10°) • 85 (20° – 30°)	Enter pattern normally
Configure Aircraft – Appropriate for maneuver	Va – Low weight (1900 lbs) – 92	Look for light gun signals on final
	Va – Max weight (2550 lbs) – 105	
	Vno – Max cruise – 129	
	Vne – 163	
	Best glide (max weight) – 68	