SKYHAWK 172N - Analog Panel - CHECKLIST (September 2025 Revision)			
Preflight Exterior	Nose Gear	Hot Engine Start	
Cockpit	Tire – Inflated, tread	Throttle – Pump 2x	
A.R.O.W. documents – On board	Cotter pins – Check	Check Surroundings	
Control lock – Out	Gear strut – Inflated	Shout – "CLEAR PROP!"	
Pitot Tube Cover – OFF		Mixture – HALF	
Fuel Selector – BOTH	Left Wing	Starter – Engage (Max 10 Seconds)	
Fuel Shutoff – IN	Fuel in tank – Sufficient for flight	Oil pressure – Green	
Master switch – ON	Cabin air vents – Not blocked	Throttle – 1200 RPM	
Avionics Fan – ON	Pitot tube – Clear & secure	Mixture – Lean for max RPM	
Flaps – Fully extended	Tie down – Remove	Throttle – 900 RPM	
Fuel gauge – Check level	Fuel vent – Clear	Avionics – ON • Headset – Check	
All lights – Check	Wing leading edge – Undamaged	Pre-taxi/ Taxi	
Pitot Heat – Check if necessary	Wing tip – Undamaged	Flaps – UP (visually verify)	
All switches – OFF	Light fixture – Secure	Transponder – Alt 1200	
	Aileron – Free & secure	GPS − ON • ATIS − Copy	
<u>Empennage</u>	Flap – Down & secure	Altimeter – Set and verified	
Vertical stabilizer – Undamaged	Fuel – Test quality (1)	Contact ground control	
Horizontal stabilizer – Undamaged		Taxi Light – ON ◆ Brakes – Test	
Elevator – Free and secure	<u>Left Gear</u>	Gyro Instruments – Check	
Rudder cables – Good condition	Tire – Inflated, no bald spots		
Trim tab – Cotter pin secure	Wheel chocks – Remove	KSMO ATIS 119.15	
Tie-down – Remove	Brakes – No fluid leaks	KSMO Ground 121.90	
	Brake pads – Thickness sufficient	KSMO Tower 120.10	
<u>Antennas</u>	Gear leg – Good condition	SOCAL Approach 125.20 or 124.30	
Comm antennas – Secure	360° Walk around, tie downs/chocks	Run-Up	
Transponder antenna – Attached	Tow Bar/Baggage Door locked	Parking brake – Set	
ELT antenna – Secure		Fuel selector – BOTH	
GPS antenna – Secure	Preflight Interior	Trim – Set for takeoff	
VOR antenna – Secure	Passenger Briefing	Pilot Briefing	
	Seatbelt use • Exit procedure	Positive exchange of controls	
Right Gear	Com use • Motion sickness	Plan for power loss on takeoff	
Tire – Inflated, no bald spots	Look for traffic	(see "Power Loss on Takeoff")	
Wheel chocks – Remove	Fire extinguisher use	Route of flight (GPS Set)	
Brakes – No fluid leaks		Run-Up	
Brake pads – Thickness sufficient	Alternate Static – Check	Flight Controls – Free & Correct	
Gear leg – Good condition	Seat – Adjusted	Annunciator Lights – Check (N/A)	
	Master – ON	Instruments – Check	
Right Wing	Beacon – ON	Oil Temperature – 100° F	
Flap – Down & secure	Nav lights – ON (ADS-B)	Mixture – Best Power	
Aileron – Free & secure	Circuit breakers – IN	Power – 1700 RPM	
Light fixture – Secure	Fuel selector – BOTH	Magneto left – Check *	
Wing tip – Undamaged	Insert key – Do not turn	Magneto right – Check *	
Wing leading edge – Undamaged	Cold Engine Start	(*RPM Max drop 125/Max diff 50)	
Tie down – Remove	IF OIL TEMP NOT IN GREEN	Suction – Green Carb Heat – Check	
Fuel in tank – Sufficient for flight	Mixture – RICH	Amps – Not discharging	
Cabin air vents – Not blocked	Carb Heat – Cold	Oil Temperature – Green	
Fuel – Test quality (1)	Prime – AS REQUIRED (3 to 4 times)	Oil Pressure – Green	
	Mixture – LEAN (1/2 full)	Power – Idle check (575 - 625 rpm)	
Cowling	Throttle – 1/4 INCH	Power – 900 RPM	
Oil – Check Level (6 - 7qt)	Check Surroundings	Mixture – Lean for taxi	
Fuel – Test Quality (1)	Shout – "CLEAR PROP!"	Throttle friction	
Prop blades – Good condition	Starter – Engage (Max 10 Sec.)	Transponder – Set	
Alternator Belt – Good condition	Mixture-ENRICHEN(When Eng. Start)		
Air Intakes – Not blocked	Oil Pressure – Green	Holding Short	
Cowlings – Secure	Throttle – 1200 RPM	Doors & Windows - Locked	
Static Port – Clear	Mixture – Lean for Max RPM	Flaps – Set for takeoff	
	Throttle – 900 RPM	Trim – Set for takeoff	

Avionics – ON • Headset – Check

Carb Heat – Cold

SKYHAWK 172N - Analog Panel - CHECKLIST (September 2025 Revision)			
Taking the Active Runway	Descent	Emergency Procedures	
The following items should be	Power – Set for descent rate	Power Loss in Flight	
done by memory every time	Carb Heat – As required	Airspeed – Best glide: 68 KIAS	
pilots taxi onto a runway.	Pitch – Constant airspeed	Best Field - Choose, fly towards	
Landing Light – ON	Strobe Lights – ON	plan approach (based on wind)	
Strobe Light – ON	Landing Light – ON	<u>Checklist – 7 Up:</u>	
Check final – Clear	ATIS – Copy	Fuel Selector – BOTH	
Check runway – Clear	Mixture – Enrichen as desired	Carb Heat – ON	
Check doors & windows – Locked	Pre-Landing	Mixture – As required	
Fuel Selector – BOTH	Fuel Selector – BOTH	Throttle – Cracked	
Mixture – RICH	Mixture – RICH	Primer – IN and LOCKED	
Engine Gauges – Green	Landing Light - ON	Master – ON	
Power Loss on Takeoff	Strobe Lights – ON	Ignition – Attempt restart if prop	
On Ground	Power – 1500 Carb Heat – ON	stopped / Cycle mags	
Throttle – Idle	Pitch – To slow to Vfe (110 Kts for 10°)	<u>Declare:</u>	
Brakes – Apply	Flaps – As necessary	Squawk – 7700 IDENT	
Flaps – Up	Pitch for approach speed of 65 Kts	Mayday – 121.50 or current	
Aircraft – Stop	Trim to relieve control pressures	frequency	
Master – OFF	Go-Around	Engine – Shutdown	
Below 800 Feet AGL	Power – Full Carb Heat – OFF	Fuel Selector Valve – OFF	
Lower nose abruptly - Pitch 65 kts	Flaps – Retract to 20° immediately	Mixture – Full Lean	
Fuel Selector Valve – OFF	Then retract in stages w/ pos. rate	Ignition – OFF	
Mixture – Cutoff	Pitch for best climb (Vy) – 73KIAS	Flaps – As required	
Ignition – OFF	Announce – "Going around"	Get Ready	
Flaps – Full or as required	Clear of Runway	Seatbelts – Tighten	
Master – OFF	Trim – Set for takeoff	Sunglasses, headset – Remove	
Land straight ahead	Transponder – 1200	Doors – Unlatch prior to touchdown	
Do not attempt to return to	Flaps – Up	Passenger – Secure Master switch – OFF (Final)	
Runway Above 800 Feet AGL	Mixture-LEAN for taxi Carb Heat-OFF Landing Light – OFF	Warning: A, B, C much more important	
Note winds/ MSL altitude	Taxi Lights – As required	than D, E, F, G. Fly the Plane first.	
Land on runway or golf course	Strobe Lights – OFF	Always assume engine will not	
Climb	Contact ground control	restart.	
Pitch for airspeed (75 - 85kts)	Shut Down	restart.	
Power – FULL	Avionics – OFF	Electrical Fire	
Trim – Relieve control pressure	Throttle – 1000RPM	Master – OFF	
Engine Instruments – Monitor	Ignition – Cycle • Mixture – Cutoff	All switches – OFF	
Flaps – Up	Mags – OFF • Key – OUT	Cabin heat / air – OFF	
Passing 3000 MSL – Lean	Master + Lights OFF EXCEPT Beacon	Air vents – Closed	
Cruise	Fuel Selector – Right or Left	Fire Extinguisher – As required	
Power – 2200 – 2400	Hobbs & Tach record	Cabin – Ventilate	
Trim – Relieve control pressure	Tie Down/Secure	Land – As Soon as Practical	
Temps and pressures – Monitor	Chocks – Replace	Engine Fire	
Mixture – Lean	Tie downs – Attach	Mixture – Full Lean	
H.I. – Aligned with Compass	Controls – Secure	Fuel Selector Valve – OFF	
	Pitot tube cover – ON	Master – OFF	
Pre-maneuver	V Speeds (w/ STC SA2196CE + SA4428SW)	Cabin Heat and Air – OFF	
Performed prior to every maneuver.		Airspeed – 100 KIAS/Vne, wx permitting	
Memorize this checklist.	Vs1 – 50	Forced Landing – Execute	
	Vr – Variable		
C.E.R.R.C.A.	Vx – 62	Comm Failure	
Clearing turn(s)	Vy – 73	Troubleshoot	
Emergency landing area	Vfe – 110 (10°) • 85 (20° – 30°)	Squawk – 7600 (If able)	
Radio – Announce position	Va – Low weight (1750 lbs) – 85	Proceed to nearest suitable airport	
Reference point -Airspeed,	Va – Max weight (2550 lbs) – 105	Enter pattern normally	
heading, altitude	Vno – Max cruise – 127	Look for light gun signals,	
Configure Aircraft – Appropriate	Vne – 158	proceed to land when cleared	
for maneuver	Best glide (max weight) – 68		