

# Skyhawk

## CHECKLIST



172 MODEL

**N**

## V - SPEEDS

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V <sub>so</sub>	44	Stall Speed in Landing Configuration
V <sub>s</sub>	50	Stall Speed in Clean Configuration
V <sub>r</sub>	54	Takeoff Rotation Speed
V <sub>x</sub>	59	Best Angle of Climb
V <sub>y</sub>	73	Best Rate of Climb
V <sub>fe</sub>	85	Max Flap Extended
V <sub>a</sub>	97	Maneuvering Speed (Max Gross Wt.)
V <sub>no</sub>	128	Maximum Structural Cruising Speed
V <sub>ne</sub>	160	Never Exceed Speed
V <sub>g</sub>	65	Best Glide Speed (Clean Configuration)
V <sub>g</sub>	60	Best Glide Speed (Flaps)

## INITIAL

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Weather & Density Altitude	Check / Determine
Weight & Balance	Check
Performance Requirements	Check
Flight Plan	File

## WALK UP

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Area behind plane	Check Clear
Airplane Symmetry	Check
Obvious Damage	Check
Fuel Quantity	Check
Oil	Check

P R E F L I G H T

1

## CABIN

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Hobbs Time	Check/Record
Papers	A.R.O.W.
Control Lock	Remove
Master	ON
Flaps	Extend
Pitot Heat	On/Check
Nav/Beacon/Strobe	Check
Taxi/Landing Light	Check
Fuel Gauges	Check
Master	OFF
Alternate Static Source	Check
Fuel Selectors	Both
Circuit Breakers	Check In

P R E F L I G H T

2

## F U S E L A G E / E M P E N N A G E

Left Fuselage / Baggage Door	Check / Secure
Antennas	Check
Control Surfaces	Check
Rear Nav Light / Rotating Beacon	Check
Right Fuselage / Empennage	Check

## R I G H T W I N G

Flaps / Aileron / Wing	Check Top
Nav Lights / Strobes	Check Secure
Wing	Check Front / Bottom
Aileron / Flaps	Check Bottom
Tiedown	Remove
Wing Strut	Check
Wheel / Tire / Brakes	Check
Fuel Sump	Check Grade / Quality
Fuel Quantity / Cap	Check / Secure

P R E F L I G H T

3

## N O S E

Engine Oil Level	Check 5 Qts Minimum
Fuel Sump	Check Grade / Quality
Propeller	Check
Carburetor Air Filter	Check
Landing Light	Check
Nose Wheel Strut and Tire	Check
Nose Chock	Remove
Static Source Opening	Check

## L E F T W I N G

Pitot Tube / Cover	Check / Remove
Stall Warning Opening	Check
Fuel Tank Vent	Check
Wing Front / Tip / Nav Lts / Strobe	Check
Aileron / Flaps	Check
Tiedown	Remove
Wheel / Tire / Brakes	Check
Fuel Sump	Check

P R E F L I G H T

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## BEFORE ENGINE START

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Passenger Briefing	Seatbelts,Air, Exits
Seats / Seatbelts / Shoulder Harnesses	Adjust and Lock
FUEL SELECTOR	Both
BRAKES	Set
AVIONICS MASTER	Off
Circuit Breakers	Check In

BEFORE START

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## ENGINE START

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Throttle	Open 1/4"
Mixture	Full Rich
Propeller Area	Clear
Master Switch	On
Rotating Beacon	On
Nav Lights / Strobes	As Required
Ignition Switch	Start
Oil Pressure	Check
Flaps	Up
Avionics Master Switch	On
Radios	Check On
Frequencies	Check / Set
ATIS	Check
Altimeter	Set
Instruments	Check

ENGINE START

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# T A X I

Transponder	Standby
Radio	Test
Contact Ground	Who/Where/Destination/ATIS
Brakes	Check Both Seats
Taxi to runway	Wind Correction
<b>Instruments</b>	<b>Attitude Indicator</b>
	<b>Turn Coordinator</b>
	<b>Heading Indicator to Compass</b>

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# R U N U P

Parking Brake	Set
Seats and Seatbelts	Secure
Flight Controls	Free and Correct
Instruments	Set
Fuel Selector	Both
Mixture	Rich (Below 3000 ft. MSL)
TRIM	For Takeoff
Primer	In / Locked
THROTTLE	<b>1700 RPM</b>
CARB HEAT	Check for RPM drop
MAGNETOS	Check (RPM not < 150 or 50 diff)
AMMETER	Check / Load
SUCTION	Check
THROTTLE	Idle check then <b>1000 RPM</b>
Radios	Set
Autopilot (if installed)	Off
Strobe Lights	As Desired
Throttle Friction Lock	Adjust
Doors and Windows	Closed and Locked
TRANSPONDER	<b>ALT</b>
Parking Brake	Release

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## T A K E O F F - N O R M A L

Flaps	0° - 10°
<b>Transponder</b>	<b>Alt</b>
Throttle	Full Open
Oil Pressure	Check
Rotate	<b>57</b>
Climbout	Vx 60
	Vy 73

## S H O R T F I E L D

Flaps	10°
<b>Transponder</b>	<b>Alt</b>
Taxi	<b>Use Full Runway</b>
Brakes	Apply - HOLD
Mixture	Rich (Lean above 3,000)
Throttle	Full Open
Oil Pressure	Check
Brakes	Release
Elevator Control	Slightly tail low
Rotate	50
Climbout	<b>59</b> (Until Clear)
Flaps	RETRACT

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## S O F T F I E L D

Flaps	10°
<b>Transponder</b>	<b>Alt</b>
Carburetor Heat	Cold
Mixture	Rich (Lean above 3,000)
Taxi	<b>Keep nosewheel up</b>
Throttle	Full Open
Oil Pressure	Check
Elevator Control	Tail low
Liftoff	ASAP - stay in ground effect until Vy - 73
Flaps	RETRACT

## A F T E R T A K E O F F

Flaps	RETRACT
Landing Light	Off
Airspeed	70-80
Throttle	Full Open
Mixture	Lean above 3,000
Flight Plan	Open

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## CRUISE

Power	2200-2700 RPM
Elevator and Rudder Trim	Adjust
Mixture	Lean above 3,000
Heading Indicator	Check / Set to Compass

## APPROACH / DESCENT

ATIS	Check
Altimeter	Set
Fuel Selector Valve	BOTH
Mixture	Enrich
Seats, Seatbelts	Upright & Secure
Landing Light	On
Instruments	Check
Heading Indicator	Set to compass

ENROUTE / APPROACH

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## BEFORE LANDING

Landing Light	On
Seat Belts / Harness	Secure
Mixture	Best Power
Fuel Selectors	Both
Flaps	As Required

## LANDING

Carb Heat	On
Flaps	30° or As Required
Speed	60 - 75 no flaps 60 - 70 flaps down

## SHORT FIELD

Flaps	30°
Speed	62 Until Flare
Touchdown	Brakes Apply Heavily
Flaps	Retract
Elevator	Back

ENROUTE

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## SOFT FIELD

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Flaps	30°
Speed	65 Until Flare
Flare	Add Power - Slightly
Elevator	Back - Hold Nose Off

## GO AROUND

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Carb Heat	Off/Closed
Power	Full
Positive Rate Climb	Establish
Flaps	Retract xSlowly

## TOUCH & GO

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Flaps	Retract
Carb Heat	Off / Closed
Power	Full
Oil Pressure/Temp	Check

## LANDING

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## AFTER LANDING

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Flaps	Retract
Transponder	Standby
Notify Ground	Clear of Active

## SHUTDOWN

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FLIGHT PLAN	CLOSE - Contact FSS
Parking Brake	Set
Radios/Avionics	Off
Avionics Master	Off
Mixture	Idle / Cutoff
Ignition Switch	Off
Lights	Off
Master Switch	Off
Fuel Selector	Right or Left
Control Lock	Install
Hobbs Meter	Record Time

## SHUTDOWN

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# ENGINE FAILURE

## DURING TAKEOFF ROLL

Throttle	IDLE
Brakes	APPLY
Flaps	Retract
Mixture	Idle Cut Off
Ignition Switch	Off
Master Switch	Off

## AFTER TAKEOFF

Airspeed	65
	<b>60 Flaps Down</b>
Mixture	Idle Cutoff
Fuel Shutoff Valve	Off (Pull Out)
Ignition Switch	Off
Flaps	As Required
Master Switch	Off
Cabin Door	Unlatch
Land	Straight Ahead

EMERGENCY

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# ENGINE FAILURE

## DURING FLIGHT

Best Glide	65
Pick Field	Check Wind Direction
Fuel Selectors	Both
Mixture	Full Rich
Fuel Shutoff Valve	Push In
Auxiliary Fuel Pump	On
Ignition Switch	Both (Start if Engine Stopped)

EMERGENCY

E

# FORCED LANDING

## NO ENGINE POWER

Airspeed	65
	60 Flaps Down
Best Field	Check Wind Direction
Mixture	Idle Cutoff
Fuel Shutoff Valve	Off (Pull Out)
Ignition Switch	Off
Flaps	As Required
Master Switch	Off
Cabin Door	Unlatch
Touchdown	Tail Slightly Low
Brakes	Apply Heavily

EMERGENCY

E

# FORCED LANDING

## WITH ENGINE POWER

Airspeed	65 Knots
Flaps	20°
Best Field	Check Wind Direction
Mixture	Idle Cutoff
Fuel Shutoff Valve	Off (Pull Out)
Ignition Switch	Off
Flaps	30° On Final Approach
Master Switch	Off
Cabin Door	Unlatch
Touchdown	Tail Slightly Low
Brakes	Apply Heavily

EMERGENCY

E