

C-172S SKYHAWK CHECKLIST

EAST COAST AERO CLUB

PREFLIGHT

COCKPIT SAFETY CHECK

MagnetosOFF, KEY OUT
MixtureCUTOFF
ThrottleCLOSED

Hobbs & Tach	RECORD
Documents (A(R)ROW)	ON-BOARD
Flight control lock	REMOVE
Parking brake	AS REQUIRED
Avionics Master	OFF
Electrical switches	OFF
Beacon	ON
Master switch PROP CLEAR	ON
Fuel gauges	CHECK
Low fuel annunciators	ABSENT
Annunciator panel	TEST
Avionics	ON, CHECK FAN, OFF
Pitot heat	ON, CHECK, OFF (ONLY IF REQUIRED)
Required Exterior lights	ON, CHECK, OFF
Flaps	EXTEND
Master switch	OFF
Altimeter	FIELD ELEVATION
Magnetic compass & deviation card	CHECK
Fuel selector	BOTH
Alternate static	CHECK THEN OFF
Fire extinguisher	CHECK
Windows	CHECK

EMPENNAGE

General Condition CHECK
Baggage Area SECURE
Baggage door Un-locked & LATCHED
Autopilot static port CHECK
Tail tie down and / lock REMOVE
Elevator & Counter WtsCHECK & CLEAR
Trim tab CHECK & CLEAR
Rudder CHECK & CLEAR
Antennas CHECK

RIGHT WING

General condition	CHECK & CLEAR
Flap	CHECK
Aileron & Counter Wts	CHECK
Wingtip	CHECK
Tie down/chock	REMOVE
Main gear & Brake	CHECK
Fuel tank sumps (5).	DRAIN & NO DRIPS
Fuel tank & Quantity	CHECK
Fuel cap & Vent	CHECK
Fresh air inlet	CHECK

NOSE

General condition & leaks CHECK
 Fuel drain (3)..... DRAIN & NO DRIPS
 Oil 6 Qts CHECK
 Propeller & spinner CHECK
 Alternator beltCHECK
 Air inlets CHECK
 Air filter CHECK
 Nose gear CHECK
 Chock & Tow Bar REMOVE
 Static port CHECK

LEFT WING

General condition	CHECK & CLEAR
Fresh air inlet	CHECK
Stall horn	CHECK
Pitot	CHECK
Tie down/chock	REMOVE
Fuel tank sumps (5)	DRAIN & NO DRIPS
Fuel tank vent	CHECK
Fuel tank & Quantity	CHECK
Fuel cap & Vent	CHECK
Wingtip	CHECK
Aileron & Counter Wts.....	CHECK
Flap	CHECK
Main gear & Brakes	CHECK

BEFORE ENGINE START

Tail Lock IN COCKPIT
 Passenger briefing COMPLETE
 Seats & seat belts SECURE
 Doors CLOSED & LOCKED
 Circuit breakers CHECK
 Electrical switches OFF
 Avionics OFF
 Fuel selector BOTH
 Fuel shutoff IN / ON
 Brakes HOLD

ENGINE START

Mixture CUTOFF
Throttle 1/4" OPEN
Master switch **PROP CLEAR** ON
Fuel Pump ON
Prime 3-5 SECS IF **COLD**
2 SECS IF **WARM**, 0 SECS IF **HOT**
Fuel Pump OFF
PROPELLER AREA CLEAR

PROPELLER AREACLEAR

Starter ENGAGE
Mixture RICH
Throttle ... 800 RPM (No Higher Than 1000)
Oil pressure CHECK
Mixture.....LEAN

BEFORE TAXI

Flaps RETRACT
Avionics ON
Transponder (1200 VFR) ALT
Radios SET
ATIS CHECK
Flight instruments SET
Lights AS APPROPRIATE
Navigation & Transponder SET
Radio CLNC, GROUND/CTAF
#2 Radio MONITOR 121.5

TAXI

Parking BrakeRELEASED
BrakesCHECK
Flight instrumentsCHECK

ENGINE RUNUP

Brakes	SET & HOLD
Fuel selector	BOTH
Mixture (below 3000')	RICH
Oil Temp	IN THE GREEN
Throttle	1800 RPM
Mags (drop 150, diff 50)	CHECK
Vacuum (4.5-5.5")	CHECK
Engine indicators	CHECK
Ammeter Check	CHECK
<u>TURN ON ONLY EQUIPMENT & LTS EXPECTED FOR FLT.</u>	
<u>EXTEND FLAPS ONLY FOR SHORT OR SOFT FIELD T/O</u>	
Annunciators	ABSENT
Throttle	IDLE
Throttle	1000 RPM

BEFORE TAKEOFF

Pitot heat	AS REQUIRED
Flight instruments	CHECK
Electric trim	CHECK
Autopilot	OFF
Flight controls	CHECK
Trim	TAKEOFF
Flaps	Normal 0°-10°, Short/Soft 10°
Seats & seat belts	SECURE
Doors & windows	SECURE
Takeoff briefing	COMPLETE
Radio	TOWER/CTAF
#2 Radio	MONITOR 121.5
Lights WHEN CLRD FOR TAKEOFF ...	AS APPROPRIATE

FREQUENCIES

HANSCOM - KBED

ATIS	124.6
GROUND	121.7
TOWER	118.5
BOS APP	124.4
Signature (or 781-274-0010).....	130.8

PRACTICE AREA - ALL123.5

NORWOOD - KOWD

ATIS	119.95
GROUND	121.8
TOWER	126.0
BOS APP	120.6 / 124.1

EMERGENCY (GUARD)..... 121.5

NASHUA - KASH

ATIS	125.1
GROUND	121.8
TOWER	133.2
BOS APP	124.9

C-172S SKYHAWK CHECKLIST

EAST COAST AERO CLUB

TAKEOFF

Mixture (below 3000') RICH
Throttle FULL
Power **2300-2400 RPM=Static** CHECK
Engine gauges CHECK
Airspeed CHECK
Rotate 55 KIAS
Short Takeoff (10° flaps) 56 KIAS
Crosswind Takeoff (up to 20 kts) .. (0-10° flaps)

CLIMB

Flaps..... >60KIAS - RETRACT SLOWLY
Cruise climb Airspeed 80KIAS /500'MIN

CRUISE

Power AS REQUIRED
Mixture..... LEAN AS REQUIRED

DESCENT

Fuel selector BOTH
Power REDUCE SLOWLY
Mixture AS REQUIRED
ATIS OBTAIN
Altimeters SET
Seats & seat belts UPRIGHT & SECURE
Cabin power (If equipped) OFF

APPROACH & LANDING

Fuel Selector BOTH
Downwind 90 KTS
Mixture (below 3000') RICH
Flaps (110/85 KIAS) AS REQUIRED
Flaps Crosswind >15 kts 0-20°
Landing (0°) 65-75 KIAS
Landing (30°) 60-70 KIAS

AFTER LANDING

RPM 1000
Radio GROUND/CTAF
Flaps RETRACT
Pitot Heat OFF
Lights AS REQUIRED
Fuel pump (if used) OFF
Mixture LEAN
Transponder 1200

SHUTDOWN

Call for fuel AS REQUIRED
Avionics OFF
Throttle IDLE
Mixture CUTOFF

WHEN PROP STOPS

Electrical switch OFF
Magnetos OFF, KEY OUT
Master switch OFF
Hobbs & tach RECORD
Flight control lock INSTALL
Fuel selector LEFT or RIGHT
Tie downs SECURE`

SPEEDS

Vg (0° flaps) 68 KIAS
Glide distance approx 1 NM per 600'
Va (2550/1900 lbs) 105/90 KIAS
Vfe (10°/>10°) 110/85 KIAS
Vy (0°, sea level-10K') 74-72 KIAS
Vx (0°, sea level-10K') 62-67 KIAS
Vx (10°) 56 KIAS
Vs0 40 KIAS
Vs1 48 KIAS
Crosswind Landing, Flaps Full <15 KNOTS
Crosswind Landing, Flaps 0-10° <20 KTS

AIRPLANE SPECS

Usable fuel tabs/full 35g/53g
Taxi fuel 1.4g
Climb fuel 13.0 GPH
Crosswind 15 KTS
Maneuvers 2100 RPM/90 KTS
Cruise 3000' @71% 2500 RPM/115 KTS
Cruise GPH@71% (leaned) 9.7 GPH
Max Ramp Wt 2208 LBS
Max Takeoff & Lnding Wt..... 2200 LBS

EMERGENCY PROCEDURES

**NOTE: NOT ALL EMERGENCY PROCEDURES
ARE HERE**
Check POH for additional procedures

ENGINE FIRE DURING START

Starter CONTINUE CRANKING
Mixture CUTOFF
Throttle OPEN
Fuel shutoff PULL OUT
Fuel pump OFF
Magnetos OFF
Standby battery OFF
Master switch OFF
Fire Extinguisher ACTIVATE

ENGINE POWER LOSS IN FLIGHT

Airspeed (0°/ >0°) 75/70 KIAS
Landing area IDENTIFY
Radio MAYDAY
Transponder 7700
Final approach (30°) 70 KIAS
Fuel shutoff PULL OUT
Fuel selector BOTH
Fuel pump ON
Mixture RICH
Magnetos BOTH
Engine gauges CHECK

POWER OFF LANDING

Trim for best glide 68 KIAS
Landing area IDENTIFY
Radio MAYDAY
Transponder 7700
Final approach (30°) 61 KIAS
Mixture CUTOFF
Fuel shutoff PULL OUT
Magnetos OFF
Standby batt OFF
Master switch OFF
Seat belts SECURE
Doors UNLATCH

ENGINE FIRE IN FLIGHT

Mixture CUTOFF
Fuel shutoff PULL OUT
Fuel pump OFF
Throttle CLOSED
Master switch OFF
Cabin heat & air OFF
Speed INCREASE TO EXTINGUISH
Land IMMEDIATELY

ELECTRICAL FIRE

Standby batt OFF
Master switch OFF
Vents, cabin heat & air CLOSED
Fire extinguisher AS NECESSARY
Avionics OFF
Electrical switch OFF

LANDING W/O ELEVATOR CONTROL

Trim 65 KIAS
Flaps 20°
Power USE ONLY POWER TO
CLIMB/DESCEND

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