

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 Wts CHECK & 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 belt CHECK
 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**

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 Brake RELEASED
 Brakes CHECK
 Flight instruments CHECK

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
TURN ON ONLY EQUIPMENT & LTS EXPECTED FOR FLT.
EXTEND FLAPS ONLY FOR SHORT OR SOFT FIELD T/O
 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 - ALL 123.5

NORWOOD - KOWD

ATIS 119.95
 GROUND 121.8
 TOWER 126.0
 BOS APP 120.6 / 124.1
 Flight Level (or 781-769-8680) 129.42

EMERGENCY (GUARD) 121.5

NASHUA - KASH

ATIS 125.1
 GROUND 121.8
 TOWER 133.2
 BOS APP 124.9
 Infinity (or 603-598-4526) 129.75

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 2558 LBS
Max Takeoff & Lnding Wt 2550 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 PUSH IN
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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