

C-172S G1000 SKYHAWK CHECKLIST

EAST COAST AERO CLUB

PREFLIGHT

COCKPIT SAFETY CHECK

MagnetosOFF, KEY OUT
MixtureCUTOFF
ThrottleCLOSED

Documents (A(R)ROW) ON-BOARD
 G1000 reference guide ON-BOARD
 Flight control lock REMOVE
 Parking brake AS REQUIRED
 Avionics 1 & 2 OFF
 Electrical switches OFF
 Beacon ON
 Master switches **PROP CLEAR**ON
 Hobbs & Tach RECORD
 Fuel gaugesCHECK
 Low fuel annunciators ABSENT
 Oil pressure annunciator SHOWN
 Low vacuum annunciatorSHOWN
 Low volts annunciatorSHOWN
 Avionics 1 ON, CHECK FAN, OFF
 Avionics 2 ON, CHECK FAN, OFF
 Required Exterior lightsON, CHECK, OFF
 Pitot heat ON, CHECK, OFF
 (ONLY IF REQUIRED)
 Flaps EXTEND
 Altimeter PFD & Autopilot..... FLD ELEV TN
 Master switch (Alt & Bat)OFF
 Magnetic compass & deviation cardCHECK
 Fuel selector BOTH
 Alternate static OFF
 Fire extinguisher CHECK
 Windows CHECK
NXI CO Detector (if installed) TEST

EMPENNAGE

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

RIGHT WING

General conditionCHECK & CLEAR
 FlapCHECK
 Aileron & WeightsCHECK
 Wingtip CHECK
NXI Angle of Attack TabCHECK
 NOT BENT - DO NOT TOUCH
 Fuel tank sumps (5).DRAIN & NO DRIPS
 Fuel tank & QuantityCHECK
 Fuel cap & Vent CHECK
 Fresh air inlet CHECK

Main gear & BrakeCHECK
 Tie down/chock REMOVE

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
 PitotCHECK
 Fuel tank sumps (5)DRAIN & NO DRIPS
 Fuel tank vent CHECK
 Fuel tank & Quantity..... CHECK
 Fuel cap & Vent CHECK
 Wingtip CHECK
 Aileron & Weights CHECK
 Flap CHECK
 Main gear & Brakes CHECK
 Tie down/chock REMOVE

BEFORE ENGINE START

Tail Lock IN COCKPIT
 Passenger briefing COMPLETE
 Seats & seat belts SECURE
 Circuit breakers CHECK
 Electrical switches OFF
 Avionics 1 & 2 OFF
 Fuel selector BOTH
 Fuel shutoff IN
 Brakes HOLD

ENGINE START

Mixture CUTOFF
 Throttle ¼" OPEN
STD Standby batt TEST 20 SECS,
 ensure lamp does not go off, ARM
NXI Standby batt TEST 10 SECS,
 ensure lamp does not go off, ARM
 Engine indicators CHECK NO X's
 E BUS volts MIN 24v
 M BUS voltsMAX 1.5v
 Batt S amps DISCHARGE
 Standby batt annunciatorSHOWN
 Master switches **PROP CLEAR** ON
 Fuel Pump ON
 Prime3-5 SECS IF COLD
 2 SECS IF WARM, 0 SECS IF HOT
 Fuel Pump OFF

PROPELLER AREACLEAR
 Starter ENGAGE
 Mixture RICH
 Throttle ... 800 RPM (No Higher Than 1000)
 Oil pressure CHECK
 M & S BATT POSITIVE
 Low volts annunciatorABSENT
 Mixture.....LEAN

BEFORE TAXI

Flaps RETRACT
 Avionics 1 & 2ON
 Fuel QuantitySET
 Transponder (1200 VFR) ALT
 Radios SET
 ATIS CHECK
 Flight instruments SET
 Autopilot (as per POH) CHECK
 LightsAS APPROPRIATE
 Navigation & Transponder SET
 Radio CLNC, GROUND/CTAF
 #2 Radio MONITOR 121.5

TAXI

Parking BrakeRELEASE
 BrakesCHECK
 Flight instrumentsCHECK

ENGINE RUNUP

Brakes SET & HOLD
 Fuel selectorBOTH
 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 CheckCHECK
 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 heatAS REQUIRED
 Flight instruments CHECK
 Electric trim & Cut OutCHECK
 Flight controlsCHECK
 AutopilotOFF
 Cabin power OFF
 TrimTAKEOFF
 Flaps Normal 0°-10°,Short/Soft 10°
 Seats & seat belts SECURE
 Doors & windows SECURE
 Takeoff briefing COMPLETE
 RadioTOWER/CTAF
 #2 RadioMONITOR 121.5
 Lights WHEN CLRD FOR TAKEOFF ... AS APPROPRIATE

FREQUENCIES

HANSCOM - KBED

ATIS124.6
 GROUND121.7
 TOWER118.5
 BOS APP124.4
 Signature (or 781-274-0010).....130.8

PRACTICE AREA - ALL123.5

NORWOOD - KOWD

ATIS119.95
 GROUND121.8
 TOWER126.0
 BOS APP 120.6 / 124.1

EMERGENCY (GUARD)..... 121.5

NASHUA - KASH

ATIS125.1
 GROUND121.8
 TOWER133.2
 BOS APP124.9

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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 1 & 2 OFF
Throttle IDLE
Mixture CUTOFF

WHEN PROP STOPS

Magnetos OFF, KEY OUT
Electrical switches OFF
Hobbs & tach RECORD
Master switches OFF
Standby batt OFF
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
Vs0 56 KIAS
Vs1 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 switches 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 switches OFF
Seat belts SECURE
Doors UNLATCH

ENGINE FIRE IN FLIGHT

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

ELECTRICAL FIRE

Standby batt OFF
Master switches OFF
Vents, cabin heat & air CLOSED
Fire extinguisher AS NECESSARY
Avionics 1 & 2 OFF
Electrical switches OFF

LANDING W/O ELEVATOR CONTROL

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

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