

FREQUENCIES

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

OWD

ATIS	119.95
GROUND	121.8
TOWER	126.0
BOS APP	124.1

ASH

ATIS	125.1
GROUND	121.8
TOWER	133.2
BOS APP	124.9
Practice area-ALL	123.5
Emergency (guard)	121.5

PREFLIGHT**COCKPIT SAFETY CHECK**

Magnetas	OFF,KEY OUT
Mixture	CUTOFF
Throttle	CLOSED

Documents (AROW) and G-1000 reference guide.....	ON-BOARD
Flight control lock	REMOVE
Parking brake.....	AS REQUIRED
Avionics 1 & 2	OFF
Electrical switches.....	OFF
Beacon	ON
Master switches	ON
Hobbs & Tach	RECORD
Fuel gauges	CHECK
Low fuel annunciators.....	ABSENT
Oil pressure annunciator	SHOWN
Low vacuum annunciator	SHOWN
Low volts annunciator.....	SHOWN
Avionics 1	ON, CHECK FAN, OFF
Avionics 2	ON, CHECK FAN, OFF
Pitot heat.....	ON, CHECK, OFF
Exterior lights.....	ON, CHECK, OFF
Flaps	EXTEND
Altimeter PFD & Autopilot FIELD ELEVATION	
Master switch (Alt & Bat)	OFF
Magnetic compass.....	CHECK
Fuel selector.....	BOTH
Alternate static	OFF
Fire extinguisher	CHECK
Windows.....	CHECK

EMPPENNAGE

General condition	CHECK
Baggage door	Unlocked & LATCHED
Autopilot static port.....	CHECK
Tie down.....	REMOVE

Elevator & Counter Wts.	CHECK & CLEAR
Trim tab.....	CHECK & CLEAR
Rudder.....	CHECK & CLEAR
Antennas.....	CHECK

RIGHT WING

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

NOSE

General condition & leaks	CHECK
Fuel drains (3)	DRAIN & NO DRIPS
Oil (max 6, min 5.5)	CHECK
Propeller & spinner	CHECK
Alternator belt.....	CHECK
Air inlets	CHECK
Air filter	CHECK
Nose gear.....	CHECK
Chock	REMOVE
Static port	CHECK

LEFT WING

General condition	CHECK & CLEAR
Fresh air inlet	CHECK
Stall horn	CHECK
Pitot Tube.....	CHECK
Fuel tank vent.....	CHECK
Fuel tank sumps(5) DRAIN & NO DRIPS	
Fuel tank & Quantity	CHECK
Fuel cap & Vent.....	CHECK
Wingtip	CHECK
Aileron & Weights	CHECK
Flap.....	CHECK
Main gear & Brake	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	ON
Brakes	SET & HOLD

ENGINE START

Mixture	CUTOFF
Throttle.....	1/4" OPEN
Standby batt.....	TEST 20 SECS, ARM
Engine indicators	CHECK NO X's
E BUS volts.....	MIN 24v

M BUS volts	MAX 1.5v
Batt S amps	DISCHARGE
Standby batt annuciator	SHOWN
Master switches	ON
Propeller area.....	CLEAR
Prime if COLD:	
- Fuel pump	ON
- Mixture.....	RICH 3-5 SECS,CUTOFF
- Fuel pump	OFF
Propeller area.....	CLEAR
Starter	ENGAGE
Mixture	RICH
Throttle..	800 RPM (No Higher Than 1000)
Oil pressure	CHECK
M & S BATT	POSITIVE
Low volts annuciator	ABSENT
Mixture	LEAN

BEFORE TAXI

Flaps	RETRACT
Avionics 1 & 2	ON
Fuel quantity	SET
Transponder (1200 VFR)	SET
Radios	SET
ATIS	CHECK
Flight instruments	SET
Autopilot (as per POH).....	CHECK
Lights	AS APPROPRIATE
Navigation & Transponder	SET
Radio	CLNC,GROUND/CTAF

TAXI

Parking Brake.....	RELEASE
Brakes.....	CHECK
Flight instruments	CHECK
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
Ammeters & voltmeters	CHECK
Annuciators	ABSENT
Throttle	IDLE
Throttle	1000 RPM

BEFORE TAKEOFF

Pitot heat	AS REQUIRED
Flight instruments	CHECK
Electric trim & Cut Out	CHECK
Flight controls	CHECK
Autopilot	OFF
Cabin power	OFF
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 CLR'D FOR TAKEOFF

FLIGHT

THANKS TO Scott Pace

C172S G1000 CESSNA SKYHAWK**FLIGHT**

MARC NATHANSON 12 March 2023

TAKEOFF

Mixture (below 3000') RICH
 Throttle FULL
Power (2300-2400 RPM=Static) CHECK
 Engine gauges CHECK
 Airspeed CHECK
 Rotate 55 KIAS
 Short TO (10° flaps) 56 KIAS

CLIMB

Flaps retract slowly >60KIAS
 Airspeed (cruise climb) 80KIAS
 KIAS/500'/MIN

CRUISE

Power AS REQUIRED
 Mixture LEAN AS REQUIRED

DESCENT

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

APPROACH & LANDING

Downwind 90 KTS
 Mixture (below 3000') RICH
 Flaps (110/85 KIAS) AS REQUIRED
 Landing (0°) 65-75 KIAS
 Landing (30°) 60-70 KIAS

AFTER LANDING

Radio GROUND/CTAF
RPM 1000
 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

Magnos 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
 Vx (10°) 56 KIAS
 Vs0 40 KIAS
 Vs1 48 KIAS

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

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EMERGENCIES NOTE: NOT ALL EPs
 are here. Check POH for additional
 procedures

ENGINE FIRE DURING START

Starter **CONTINUE CRANKING**
Mixture **CUTOFF**
Throttle **FULL OPEN**
Fuel shutoff **OFF**
Fuel pump **OFF**
Magnos **OFF**
Standby batt **OFF**
Master switches **OFF**
Fire Extinguisher **ACTIVATE**

ENGINE POWER LOSS

Airspeed (0°/>0°) 75/70 KIAS
 Landing area IDENTIFY
 Radio MAYDAY
 Transponder 7700
 Final approach (30°) 70 KIAS Fuel
 shutoff ON
 Fuel selector BOTH
 Fuel pump ON
 Mixture RICH
 Magnos 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 OFF
 Magnos OFF
 Standby batt OFF
 Master switches OFF
 Seat belts SECURE
 Doors UNLATCH

ENGINE FIRE IN FLIGHT

Mixture CUTOFF
 Fuel shutoff OFF
 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

LANDING W/O ELEVATOR CONTROL

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

FLIGHT**C172S G1000 CESSNA SKYHAWK****FLIGHT**