



C172S (Nav II) Preflight Checklist

Italicized items have been added



Vol. 3

PREFLIGHT

CABIN

Pitot Tube Cover.....REMOVE
Registration/Airworthiness.....CHECK
POH/Weight & Balance.....CHECK
Parking Brake.....SET
Control Wheel Lock.....REMOVE
Ignition Switch.....OFF/KEYS VISIBLE
Avionics Master.....OFF
Throttle.....IDLE
Mixture.....IDLE/CUT-OFF
Master.....ON
 Beacon.....ON
 Pitot Heat.....CHECK
 Fuel Qty.....CHECK
 Flaps.....DOWN
 Ldg/Taxi/Nav/Strobe.....CHECK
 Avionics Cool. Fan.....CHECK
 Annunciators.....TEST/CHECK
Master.....OFF
Elevator Trim.....Set T/O
Fuel Selector.....CHECK/SET BOTH
Fuel Shutoff.....CHECK/ON (push in)
Alt. Static.....OFF (*push in*)
Fire Extinguisher.....CHECK

EMPENNAGE

Baggage Door.....CHECK/LOCK
Autopilot Static Source.....CHECK
Rudder Gust Lock.....REMOVE
Control Surfaces.....CHECK
Trim Tabs.....CHECK
Antennas/Static Wicks.....CHECK
Tail Tie Down.....DISCONNECT

RIGHT WING

Flap.....CHECK
Aileron.....CHECK
Wing Tip/Lights.....CHECK
Leading Edge.....CHECK
Tire/Brakes.....CHECK
Fuel Tank Sump Valves.....DRAIN
Fuel Quantity/Cap.....CHECK/SECURE
Wing Tie Down.....DISCONNECT

NOSE

Fuel Quick Drains
 Fuel Reservoir.....DRAIN
 Fuel Selector.....DRAIN
 Fuel Strainer.....DRAIN
Oil Dipstick.....CHECK (≥ 6 qts)
Engine Cooling Air Inlets.....CLEAR
Alternator Belt.....SECURE
Propeller/Spinner.....CHECK
Air Filter.....CHECK
Nosewheel Strut/Tire.....CHECK
Left Static Source.....CHECK

LEFT WING

Leading Edge.....CHECK
Pitot Tube.....CHECK
Fuel Tank Vent Opening.....CHECK
Stall Warning Opening.....CHECK
Landing/Taxi Lights.....CHECK
Wing Tip/Lights.....CHECK
Aileron.....CHECK
Flap.....CHECK
Tire/Brakes.....CHECK
Fuel Tank Sump Valves.....CHECK
Fuel Quantity/Cap.....CHECK/SECURE
Wing Tie Down.....DISCONNECT



C172S (Nav II) Normal Checklist



Italicized items have been added

Vol. 3

BEFORE START

Preflight Inspection.....COMPLETE
Passenger Briefing.....COMPLETE
Seats/Seat Belts.....ADJUST/LOCK
Brakes.....TEST/SET
Circuit Breakers.....CHECK IN
Electrical Equipment.....OFF
Flashing Beacon.....ON
Avionics Master.....OFF
Fuel Selector.....BOTH
Fuel Shutoff.....ON (*push in*)

ENGINE START

Throttle.....OPEN(1/4")
Mixture.....IDLE/CUTOFF
Propellor Area.....CLEAR
Master.....ON
If engine is warm, skip this priming process
Aux Fuel Pump.....ON
Mixture.....FULL/RICH
Note stabilized Fuel Flow for 3-5 seconds
Mixture.....IDLE/CUTOFF
Aux Fuel Pump.....OFF
Ignition Switch.....ENGAGE
Mixture.....SMOOTHLY ADVANCE TO RICH
Throttle.....1000 RPM
Oil Pressure.....GREEN ARC
LOW VOLTS Annunciator.....CHECK/OUT
Mixture.....LEAN AS REQ'D

BEFORE TAXI

Avionics Master.....ON
Radios/Electrical Equip.....ON
Lights.....AS REQ'D
Flight Instruments.....CHECK/SET
Autopilot/Electric Trim.....CHECK
Flaps.....UP

RUN UP

Parking Brake.....SET
Flight Controls.....FREE/CORRECT
Fuel Selector.....BOTH
Fuel Shutoff.....ON (*push in*)
Fuel Quantity.....CHECK
Mixture.....FULL RICH
Throttle.....1800 RPM
Magnetos.....CHECK (150 Max/50 Diff)
Vacuum Gauge.....CHECK
Engine Inst/Ammeter/Annunciators.....CHECK
Throttle Idle.....CHECK (675 Min)
Throttle.....1000 RPM
Throttle Friction Lock.....ADJUST
Mixture.....LEAN FOR TAXI
Instruments/Bugs.....CHECK/SET
Nav/GPS Switch (if installed).....SET
Autopilot (if installed).....OFF
Electric Trim (if installed).....CHECK
Parking Brake.....RELEASED

FOULED SPARK PLUG/BURN OFF

Throttle.....2000-2200 RPM
Mixture.....LEAN TO PEAK EGT
RPM.....NOTE INCREASE (smoother running)
Mixture.....FULL RICH
Throttle.....REDUCE TO 1800 RPM
Magnetos.....REPEAT CHECK

BEFORE TAKEOFF

Departure Briefing.....COMPLETE
Passenger Seat Backs.....UPRIGHT
Seats/Seat Belts.....CHECK SECURE
Cabin Doors/Windows.....CLOSED/LATCHED
Flaps.....SET (0°-10°)
Elevator Trim.....SET T/O
Mixture.....RICH
Parking Brake.....VERIFY RELEASED

CLIMB

Flaps.....UP
Climb Power.....SET
Airspeed.....AS REQ'D
Mixture.....AS REQ'D

CRUISE

Cruise power.....SET
Trim.....AS REQ'D
Mixture.....LEAN AS REQ'D
Lights.....AS REQ'D

DESCENT

Arrival Briefing.....COMPLETE
Altimeter.....SET
Descent Power.....SET
Fuel Selector.....BOTH
Mixture.....ENRICH AS REQ'D
Instruments/Bugs.....CHECK/SET
Nav/GPS Switch (if installed).....SET
Autopilot (if installed).....OFF
Lights.....AS REQ'D
Seats/Seat Belts.....ADJUST/LOCK
Flaps.....AS REQ'D

AFTER LANDING

Flaps.....UP
Elevator Trim.....SET T/O
Mixture.....LEAN FOR TAXI
Lights.....AS REQ'D

SHUTDOWN

Parking Brake.....SET
Throttle.....1000 RPM
Avionics Switch.....OFF
Radios/Electrical Equipment.....OFF
Lights.....AS REQ'D
Throttle.....IDL
E Ignition Switch.....OFF, THEN QUICKLY ON
If Engine indicates a shutdown, continue
If Engine does NOT indicate a shutdown,
continue and SQUAWK
Mixture Control.....IDLE CUTOFF
Ignition Switch.....OFF
Master Switch.....OFF
Fuel Selector.....LEFT or RIGHT (*to prevent x-feed*)
Securing Aircraft Checklist.....PERFORM

FREQUENCIES

AAFC Unicom: 122.9 | VHF Guard: 121.5
St. Pete FSS: 122.4, 122.65 | 1-800-992-7433

KDAB

ATIS: 132.875 | Clearance: 119.3
Ground: 121.9 | Tower: 118.1/120.7
N. Dep/App: <=3500' 125.8 | >3500' 118.85
S. Dep/App: <=3500' 125.35 | >3500' 127.075

N. Practice Area: 122.85 | S. Practice Area: 123.5



C172S (Nav II) Emergency Checklist



Boldface items should be committed to memory

Italicized items have been added

Red items are WARNINGS

ENGINE FAILURE DUR. T/O ROLL

Directional Control.....MAINTAIN
Throttle.....IDLE
Brakes.....APPLY
Flaps.....RETRACT
Mixture.....IDLE/CUTOFF
Ignition Switch.....OFF
Master.....OFF

ENGINE FAILURE AFTER T/O

Airspeed.....70 KIAS (flaps UP)
.....**65 KIAS (flaps DOWN)**
Throttle.....IDLE
Mixture Control.....IDLE/CUTOFF
Fuel Shutoff Valve.....OFF (*full out*)
Flaps.....AS REQUIRED
Ignition Switch.....OFF
Master.....OFF
Cabin Doors.....UNLATCH
Land.....STRAIGHT AHEAD

ENGINE FAILURE DUR. FLT. (*Restart Proc.*)

Airspeed.....68 KIAS
Flaps.....UP
Fuel Shutoff.....ON (*full in*)
Fuel Selector.....BOTH
Mixture.....RICH (*full forward*)
Auxiliary Fuel Pump.....ON
Landing Site.....SELECT
Ignition.....**BOTH or START (*if prop stopped*)**

If the engine fails to start:

Auxiliary Fuel Pump.....OFF
Mixture.....IDLE CUTOFF (*slowly*)
Throttle.....FULL FORWARD (*slowly*)
Ignition Switch.....BOTH (start)

If engine STILL fails to start:

Transponder.....7700
Radio.....121.5
Mayday.....ANNOUNCE
Forced Land. w/o Pwr. Checklist.....EXECUTE

FORCED LANDING WITHOUT POWER

Passenger seats.....UPRIGHT
Seats/Seat Belts.....SECURE

Airspeed.....70 KIAS (flaps UP)
.....65 KIAS (flaps DOWN)
Mixture.....IDLE CUTOFF
Fuel Shutoff Valve.....OFF (*full out*)
Ignition Switch.....OFF
Flaps.....AS REQ'D (*30° recommended*)
Master.....OFF (*when landing assured*)
ELT.....ACTIVATE
Cabin Doors.....UNLATCH (*prior to touchdown*)
Touchdown.....SLIGHTLY TAIL LOW
Brakes.....APPLY HEAVILY

ENGINE FIRE IN FLIGHT

Mixture.....IDLE/CUTOFF
Fuel Shutoff Valve.....OFF (*full out*)
Auxiliary Fuel Pump.....OFF
Master.....OFF
Cabin Vents.....OPEN AS NEEDED
Cabin Heat/Air.....OFF
Airspeed.....100 KIAS (*or more*) TO EXTINGUISH
Forced Land. w/o Pwr. Checklist.....EXECUTE

ELECTRICAL FIRE IN FLIGHT

Master.....OFF
Cabin Vents/Air/Heat.....CLOSED
Fire Extinguisher.....ACTIVATE
Cabin Vents/Air/Heat.....OPEN
Avionics Master.....OFF
All Other Switches.....OFF
If fire is out, refer to Manual for cont'd flight

CABIN FIRE IN FLIGHT

Master.....OFF
Cabin Vents/Air/Heat.....CLOSED
Fire Extinguisher.....ACTIVATE
Cabin Vents/Air/Heat.....OPEN
Airport.....LAND

WING FIRE IN FLIGHT

Landing/Taxi Lights.....OFF
Navigation Lights.....OFF
Strobe Lights.....OFF
Pitot Heat.....OFF
Sideslip.....PERFORM (*keep flames from fuel*)

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