



C172S (Nav II) Preflight Checklist



Italicized items have been added

Vol. 1

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. 1

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
 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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