



C172S (Nav III) Preflight Checklist



Italicized items have been added

Vol. 1

PREFLIGHT

CABIN

- Pitot Tube Cover.....REMOVE
- Registration/Airworthiness.....CHECK
- POH/Weight & Balance.....CHECK
- G1000 Reference Guide.....CHECK
- Parking Brake.....SET
- Control Wheel Lock.....REMOVE
- Magnetos.....OFF
- Avionics Switch.....OFF
- Master.....ON
- Beacon.....ON*
- PFD.....CHECK ON
- FUEL QTY (L & R).....CHECK
- LOW FUEL L/R.....CHECK OFF
- OIL PRESSURE.....CHECK ON
- LOW VACUUM.....CHECK ON
- Avionics Switch (Bus 1).....ON
- Fwd Avionics Fan....CHECK
- Avionics Switch (Bus 1).....OFF
- Avionics Switch (Bus 2).....ON
- Aft Avionics Fan.....CHECK
- Avionics Switch (Bus 2).....OFF
- Pitot Heat (IFR).....ON/CHECK
- Pitot Heat.....OFF
- LOW VOLTS.....CHECK ON
- Ldg/Taxi/Nav/Strobe....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*
- AileronCHECK
- Flap.....CHECK
- Tire/Brakes.....CHECK
- Fuel Tank Sump Valves.....CHECK
- Fuel Quantity/Cap.....CHECK/SECURE
- Wing Tie Down.....DISCONNECT



C172S (Nav III) 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
 Standby Battery.....TEST/ARM
Hold for 20 seconds.

Verify Green light does not extinguish.

Engine System.....CHECK (*no red "X"s*)
 BUS E Volts.....CHECK (24V min)
 M BUS Volts.....CHECK (1.5V or less)
 BATT S Amps.....CHECK (*Verify Discharge*)
 SBY BATT Ann.....CHECK ON
 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

Magnetos Switch.....ENGAGE
 Mixture.....SMOOTHLY ADVANCE TO RICH
 Throttle.....1000 RPM
 Oil Pressure.....GREEN ARC
 AMPS (M BATT & BATT S).....CHECK CHARGE
 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
 Standby Flight Instruments.....CHECK/SET
 PFD.....CHECK (*no red "X"s*)
 Altimeters (PFD, SBY, KAP 140 if installed).....SET
 G1000 Altitude Select.....SET
 KAP 140 Altitude Select (if installed).....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)
 VAC Indicator.....CHECK
 Engine Indicators.....CHECK
 Ammeters/Voltmeters.....CHECK
 Throttle Idle.....CHECK (675 Min)
 Annunciators.....CHECK OUT
 Throttle.....1000 RPM
 Throttle Friction Lock.....ADJUST
 Mixture.....LEAN FOR TAXI

COM/NAV Radios.....SET
 Transponder.....SET
 FMS/GPS Flight Plan.....AS REQ'D
 Instruments/Bugs.....CHECK SOURCES/SET
 Autopilot (if installed).....TEST
 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
 Altimeters (PFD, SBY, KAP 140 if installed).....SET
 Descent Power.....SET
 Fuel Selector.....BOTH
 Mixture.....ENRICH AS REQ'D
 Instruments/Bugs.....CHECK SOURCES/SET
 G1000 Altitude Select.....SET
 KAP 140 Altitude Select (if installed).....SET
 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
 Radios/Electrical Equipment.....OFF
 Avionics Switch.....OFF
 Lights.....AS REQ'D
 Throttle.....IDLE
 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
 Standby Battery.....OFF
 Fuel Selector...LEFT or RIGHT (*to prevent x-feed*)
 Securing Aircraft Checklist.....PERFORM

