

C172S (G1000) CHECKLIST

PRE-FLIGHT INSPECTION

Magnetos..... OFF
Avionics Bus 1 and 2..... OFF
Master Switch ALT and BAT ON
Flaps.....Select Down for External Inspection
PFD Powering Up
Fuel Quantity in Tanks.....Check Sufficient
Low Fuel..... Annunciator NOT ON
Fuel Quantity Remaining Set Quantity
Oil Pressure & Low Vacuum..... Annunciators ON
Avionics BUS 1..... ON, verify forward fan, OFF
Avionics BUS 2..... ON, verify rear fan, OFF
Pitot Heat & Lights..... Test if Required
Low Volts..... Annunciator ON
Master Switch ALT and BAT OFF
Fuel Selector ON BOTH
Fuel Shutoff FUEL ON (Push fully IN)
Conduct External Pre-flight Inspection

PRE-START

Pre-flight Inspection & Passenger Brief.. COMPLETE
Seats, Seatbelts ADJUSTED & SECURE
Brakes ON
Fuel Selector ON BOTH
Fuel Shutoff FUEL ON (Push fully IN)
Circuit Breakers CHECK IN
Switches OFF
Avionics BUS 1 & 2 OFF
Standby Battery Switch TEST (10 sec) then ARM
PFD Powering Up
Engine Indicators..... No Red X's
Essential BUS E Volts Min 24 Volts
Main BUS M Volts Max 1.5 Volts
Standby BATT S Amps..... Discharging (Negative)
STBY BATT Annunciator ON
Master Switch ALT and BAT ON
Beacon/Lights.....As Required

COLD START

Throttle ½”
Mixture Idle Cutoff
Prime Engine:
Fuel Pump..... ON
Mixture – move to FULL RICH, check stable fuel
flow established (3-5 sec) then IDLE CUTOFF
Fuel Pump..... OFF
Throttle..... ¼”
Propellor..... ALL CLEAR
Starter Engage
Mixture Advance to RICH as engine starts

HOT START

Throttle ¼”
Mixture Idle Cutoff
Propellor..... ALL CLEAR
Starter Engage
Mixture Advance to RICH as engine starts

AFTER START

Throttle..... 1000 RPM
Oil Pressure Green within 30-60 seconds
Amps Main and Standby.....Charging (Positive)
Low Volt Annunciator NOT ON
Flaps UP
Avionics Switch BUS 1 & BUS 2..... ON
MFD Powering Up - Verify Database Currency
Radios, Intercom..... TUNE, SET
QNH PFD & Standby Altimeter..... SET
Mixture Lean for Taxi

TAXI CHECK

Brakes..... Test
Instruments Check

ENGINE RUN-UP and PRE-TAKEOFF

Auto-Pilot TEST Operation/Overpower/Disconnect
Auto-Pilot and Flight Director Verify OFF

Heading & Altitude SET
GPS Flight Plan..... Entered & Activated
Electric Trim Test Operation and Interrupt
Trim SET (slightly forward for T/O)
Mixture RICH
Fuel Shutoff..... ON (Push fully IN)
Fuel ON BOTH, Sufficient
PFD Flight Instruments No Red X's
Standby Flight Instruments SET
Controls.....FREE and CORRECT
Hatches and Harnesses SECURE
Temps and Pressures GREEN
Brakes ON
Throttle 1800 RPM
Magnetos CHECK LEFT & RIGHT
Engine Indicators No Red X's
Amps Charging
Suction GREEN
Annunciators CHECK NONE
Throttle CHECK IDLE then set 1000 RPM
Flaps SET for T/O
Circuit Breakers..... IN
Radios & Nav aids..... TUNED
Transponder GND mode, Correct Code
CDI Softkey Select Nav Source
Departure Self-Brief, EFATO, Windsock

ENTERING RUNWAY

Lights/Strobes As Required

AFTER TAKEOFF

Flaps UP
Oil Temperature & Pressure GREEN
Landing Light..... OFF
Transponder Verify ALT

Turn Over for LANDING and SHUTDOWN

AFTER LANDING

Flaps.....UP
Lights..... OFF as Required
Mixture.....Lean for Taxi
Transponder Reset discrete code to 3000

SHUTDOWN

Throttle 1000 RPM
Magnetos..... Verify not Live LEFT & RIGHT
Switches OFF
Avionics BUS 1 & BUS 2 OFF
Mixture..... IDLE CUTOFF
Magnetos..... OFF
Master Switch ALT and BATT OFF
Fuel Selector LEFT or RIGHT
PFD Tacho Reading NOTE
Standby Battery Switch OFF
Control Lock IN
Paperwork COMPLETE
Aircraft Neat and Tidy
Aircraft Secured, Tied Down

Vne	163 kts
Vno	129 kts
Vfe	10° 110 kts 10° - full flap 85 kts
Va (manoeuvring)	1156kg 105 kts 1000kg 98 kts 863kg 90 kts
Vx (best angle)	62 kts
Vy (best rate)	74 kts
Normal Climb	75 – 85 kts
Vglide	68 kts (flaps up)