

C172SP G1000 CHECKLIST

INTERIOR

1. **Hobbs Time** **Note**
2. Documents/POH/G1000 Guide On Board
3. Parking Brake ON
4. Control Lock Remove
5. MAGNETOS Switch Off
6. Electrical Off
7. Avionics Switch (BUS 1 & BUS 2) Off
8. **Master Switch** **On**
9. Primary Flight Display Check
(Verify PFD is ON)
10. Fuel Gages (L & R) Check
11. LOW FUEL L & R Annunciators Check
12. OIL PRESSURE Annunciator Check
(Verify annunciator is shown)
13. LOW VACUUM Annunciator Check
(Verify annunciator is shown)
14. Avionics Switch(BUS 1) ON
15. Avionics Fan Verify On
16. Avionics Switch(BUS 1) Off
17. Avionics Switch(BUS 2) ON
18. Aft Avionics Fan Verify On
19. Avionics Switch(BUS 2) Off
20. Pitot Heat Switch ON
(Carefully verify on in 30 seconds)
21. Pitot Heat Switch Off
22. LOW VOLTS Annunciator Check
(Verify annunciator is shown)
23. **Master Switch (ALT & BAT)** **Off**
24. Elevator Trim Set for Takeoff
25. **FUEL SELECTOR Valve** **BOTH**
26. Alternate Static Valve Off(push full in)
27. Fire Extinguisher Check
28. Baggage Door Closed

EXTERIOR

1. Left Fuel Sumps Drain
2. Left Fuselage Check
3. Empennage Check
4. Tail Tie Down Remove
5. Right Fuselage Check
6. Right Aileron and Flap Check
7. Right Wing Check
8. Right Tie Down Remove
9. Right Main Gear Check
10. Right Fuel Sumps Drain
11. Right Fuel Tank Quantity Check
12. Oil Level Check
13. Fuel Strainer Drain
14. Belly Sumps Drain
15. Cowling/Prop Check
16. Nose Wheel Assembly Check
17. Static Port Check Check
18. Left Fuel Tank Quantity Check
19. Left Tie Down Remove
20. Pitot Tube/Fuel Vent/Stall Slot Clear
21. Left Wing Check
22. Left Flap and Aileron Check
23. Left Main Gear Check
24. General Walk Around Complete

BEFORE STARTING ENGINE

1. Preflight Inspection Complete
2. Passenger Briefing Complete
3. Seats & Seat Belts ADJUST & LOCK
4. Brakes TEST & SET
5. Circuit Brakers CHECK IN
6. Electrical Equipment OFF
7. AVIONICS Switch(BUS 1 & 2) OFF

STARTING ENGINE

1. Seats/Belts/Harnesses Secured
2. Brakes Test/Set
3. Circuit Breakers Check In
4. Avionics Power Switch(BUS 1 & 2) Off
5. Fuel Shutoff Valve On
6. Throttle 1/4 inch
7. Mixture Control Idle Cut Off
8. **STBY BATT Switch** **TEST**
(Hold for 20 secs. verify green light stays on)
9. STBY BATT Switch to ARM position
10. PDF Verify ON
11. Engine Indicators Verify no red X's
12. BUS E Volts Check
(Verify 24 volts minimum)
13. M BUS Volts Check
(Verify 1.5 volts or less)
14. BATT S Amps Check
- verify discharge shown (negative)
15. STBY BATT Annunciator Check
(Verify annunciator is shown)
16. Prop Area **CLEAR**
17. Beacon On
18. **Master Switch (ALT & BAT)** **On**
19. Auxiliary Fuel Pump On
20. Mixture Control..... full forward 3 to 5 seconds

Until stable fuel flow

- then return to IDLE CUT OFF position

21. **Auxiliary Fuel Pump** **Off**
22. MAGNETOS Switch Start
23. Advance MIXTURE to RICH when engine starts
24. Oil Pressure Check
25. AMPS (M BATT & BATT S) . Verify Charging
25. Throttle 1000 RPM
26. Flaps Up
27. Avionics Switch(BUS 1 & 2) On
28. Nav. Lights (Night) On
29. **Transponder[SFRA Code]** **ALT**

DURING TAXI

1. RPM **800 RPM** or Less
2. **Minimum Braking!**
3. Aileron/Elevator Position for Wind Conditions

BEFORE TAKEOFF

- *1. Throttle 1000 RPM
2. Nose Wheel Straight
3. Flight Controls Free & Correct
3. Parking Brake Set
- *4. Flight Instruments(PDF) Check (no red X's)
- *5. Altimeters Set PFD & Standby
- *6. Flight Instruments(PDF) Check (no red X's)
7. PDF ALT SELECT Set
- *8. Standby Flight Instruments Check
- *9. Fuel Quantity Check
- *10. Mixture Control Rich
- *11. **Fuel Selector Valve On BOTH**
12. Auto Pilot Press AP to Engage
13. Flight Controls Check
(verify auto-pilot can be overpowered pitch & bank)
14. A/P TRIM DISC Button Press
(verify auto pilot disengages with aural alert)
12. Flight Director Off
- *15. Elevator Trim Set
16. Throttle 1800 RPM
17. Mags Check
Max Drop 150 RPM / Max Diff 50 RPM
- *11. Engine Instruments Check
12. Ammeter & Voltmeters Check
13. VAC Indicator Check
12. Annunciators Check
14. Throttle 1000 RPM
15. Avionics [Nav & Comms] Set
- *16. Flaps 0 or 10 Degrees
- *17. Doors/Windows Closed/Locked
- *18. Stobes On
- *19. **Transponder [SFRA code] ALT**
20. Friction Lock Adjust
- *21. Brakes Release

NORMAL TAKEOFF

1. Flaps 0 or 10 Degrees
2. Throttle Full Power
3. Rotate 55 KIAS
4. Climb Vx-60 \ Vy-74 KIAS
5. Cruise Climb at 1,000ft 90 Kts

NORMAL LANDING

1. Airspeed 65 - 75 KIAS (Flaps Up)
2. Flaps Below 110 KIAS (0 - 10 Degrees)
3. Flaps Below 85 KIAS
4. Airspeed 60 - 70 KIAS (Flaps Down)
5. Touchdown Main Wheels First
6. Lower Nose Wheel Gently
7. Braking Minimum Required

AFTER LANDING

1. Flaps Up
2. **Strobe & Landing Light OFF**
3. Trim Set for Takeoff

SECURING AIRPLANE

1. Throttle 800-1000 RPM
2. Electrical Equipment(Except Beacon) Off
3. Avionics Power Switch(BUS 1 & 2) Off
4. Mixture Control Idle Cut-Off
5. MAGNETOS Switch Off
6. **Master Switch(ALT & BAT) Off**
7. STBY BATT Swich Off
8. Control Lock Install
9. FUEL SELECTOR Valve LEFT or RIGHT
10. Parking Brake Set
11. Aircraft Chock & Tie Down
12. **Hobbs Time Note**
13. **Keys Return to Office**

EMERGENCY PROCEDURES

ENGINE FAILURE

DURING FLIGHT

1. Airspeed 70 KIAS
2. Fuel Shutoff Valve Both
3. Mixture Rich
4. Ignition Switch Left/Right/Both
. (or Start if Prop Stopped)

FORCED LANDING

1. Airspeed Flaps Up - 70 KIAS
. Flaps Down - 65 KIAS
2. Mixture Idle Cut Off
3. Fuel Shutoff Valve Off
4. Ignition Switch Off
5. Flaps As Required(Full Recommended)
6. Master Switch Off
7. Door Before Touchdown Unlatch
8. Seatbelts & Harnesses Tight
9. Touchdown Tail Low
10. Brakes Apply Heavily

V-SPEEDS

- | | |
|-----------------------------|----------------|
| Vso | 40 KIAS |
| Vsl | 48 KIAS |
| Vx | 60 KIAS |
| Vy | 74 KIAS |
| Va (2550 lbs.) | 105 KIAS |
| Best Glide | 70 KIAS |
| Vno | 129 KIAS |
| Vne | 163 KIAS |
| Vfe | 85 KIAS |