



NOTE: This is a Flight School Guide Only
Check the aircraft POH for specific details

C172S/R (Non-G1000) Checklists

PREFLIGHT INSPECTION

CABIN

1. Pitot Tube Cover -- REMOVE/CHECK
2. Pilot's Operating Handbook -- AVAILABLE IN THE AIRPLANE
3. Airplane Weight and Balance -- CHECKED
4. Parking Brake -- SET
5. Control Wheel Lock -- REMOVE
6. Ignition Switch -- OFF
7. Avionics Master Switch -- OFF
8. Master Switch -- ON.
9. Fuel Quantity Indicators -- CHECK QUANTITY/ANNCTRS
10. Avionics Master Switch -- ON
11. Avionics Cooling Fan -- CHECK AUDIBLY
12. Avionics Master Switch -- OFF
13. Static Pressure Alternate Source Valve -- OFF
14. Annunciator Panel Switch -- TEST/CHK BLBS

15. Fuel Selector Valve -- BOTH
16. Fuel Shutoff Valve -- ON (Push Full In)
17. Flaps -- EXTEND
18. Pitot Heat -- ON/CHECK
19. Exterior Lights -- CHECK
20. Pitot Heat -- OFF
21. Exterior Lights -- OFF
22. Master Switch -- OFF
23. Elevator Trim -- SET for takeoff
24. Baggage Door -- CHECK
25. Autopilot Static Source Opening (if installed) -- CHECK

EMPENAGE

1. Tail Tie-Down -- DISCONNECT
2. Control Surfaces -- CHECK
3. Trim Tab -- CHECK
4. Antennas -- CHECK

RIGHT WING

1. Aileron -- CHECK
2. Flap -- CHECK
3. Wing Tie-Down -- DISCONNECT
4. Main Wheel Tire -- CHECK INFLATION/CONDITION
5. Fuel Tank Sump Quick Drain Valves (5) -- DRAIN/CHECK
6. Fuel Quantity -- CHECK VISUALLY
7. Fuel Filler Cap -- CHECK VENT/SECURE CAP

NOSE

1. Fuel Quick Drain Valves (3) -- DRAIN/CHECK
2. Engine Oil Dipstick/Filler Cap -- CHECK/SECURE
(ADD OIL WHEN LEVEL AT 5 QTS)
3. Engine Cooling Air Inlets -- CLEAR

4. Propeller and Spinner -- CHECK
5. Air Filter -- CHECK
6. Nose Wheel Strut and Tire -- CHECK
7. Left Static Source Opening -- CHECK

LEFT WING

1. Fuel Quantity -- CHECK VISUALLY
2. Fuel Filler Cap -- CHECK VENT/SECURE CAP
3. Fuel Tank Sump Quick Drain Valves (5) -- DRAIN/CHECK
4. Main Wheel Tire -- CHECK
5. Fuel Tank Vent Opening -- CHECK
6. Stall Warning Opening -- CHECK
7. Wing Tie-Down -- DISCONNECT
8. Landing/Taxi Light(s) -- CHECK
9. Aileron-- CHECK
10. Flap -- CHECK

BEFORE STARTING ENGINE

1. Preflight Inspection -- COMPLETE
2. Passenger Briefing -- COMPLETE
3. Seats and Seat Belts -- ADJUST and LOCK
4. Brakes -- TEST and SET
5. Circuit Breakers -- CHECK IN
6. Electrical Equipment -- OFF
7. Avionics Master Switch -- OFF
8. Fuel Selector Valve -- BOTH
9. Fuel Shutoff Valve -- ON
10. Avionics Circuit Breakers -- CHECK IN

STARTING ENGINE

1. Throttle -- OPEN 1/4 INCH
2. Mixture -- IDLE CUTOFF
3. Propeller Area -- CLEAR
4. Master Switch -- ON
5. Flashing Beacon -- ON

NOTE: IF ENGINE IS WARM, OMIT STEPS 6-8

6. Auxiliary Fuel Pump Switch -- ON
7. Mixture -- SET to FULL RICH. Wait until fuel flow is indicated (usually 3 to 5 seconds), then set to IDLE CUTOFF (full aft) position.
8. Auxiliary Fuel Pump Switch -- OFF
9. Ignition Switch -- START (release when engine starts)
10. Mixture -- ADVANCE SMOOTHLY
11. Oil Pressure -- CHECK
12. Lights -- ON as required
13. Avionics Master Switch -- ON
14. Flaps -- RETRACT

BEFORE TAKEOFF

1. Brakes -- SET/HELD
2. Passenger Seat Backs -- MOST UPRIGHT POSITION
3. Seats and Seat Belts -- CHECK SECURE
4. Cabin Doors -- CLOSED and LOCKED
5. Flight Controls -- FREE and CORRECT
6. Flight Instruments -- CHECK and SET
7. Fuel Quantity -- CHECK
8. Fuel Selector Valve -- RECHECK BOTH
9. Throttle -- 1800 RPM

10. Mixture -- SET FOR ALTITUDE
11. Magnetos -- CHECK (RPM drop should not exceed 150 RPM on either magneto or 50 RPM differential between magnetos)
12. Vacuum Gage -- CHECK
13. Engine Instruments and Ammeter -- CHECK
14. Annunciator Panel -- Ensure no lights illuminated
15. Throttle -- CHECK IDLE
16. Throttle -- 1000 RPM
17. Throttle Friction Lock -- ADJUST
18. Lights -- AS DESIRED FOR TAKEOFF
19. Radios and Avionics -- SET
20. NAV/GPS Switch (if installed) -- SET
21. Autopilot (if installed) -- OFF
22. Manual Electric Trim (if installed) -- CHECK
23. Elevator Trim -- SET for takeoff
24. Wing Flaps -- SET for takeoff (0°-10°)
25. Brakes -- RELEASE

TAKEOFF

NORMAL TAKEOFF

1. Wing Flaps -- 0°-10°
2. Throttle -- FULL OPEN
3. Mixture -- SET FOR ALTITUDE
4. Elevator Control -- LIFT NOSE WHEEL (at 55 KIAS)
5. Climb Speed -- 70-80 KIAS
6. Wing Flaps -- RETRACT WHEN SAFE

SHORT FIELD TAKEOFF

1. Wing Flaps -- 10°
2. Brakes -- APPLY
3. Throttle -- FULL OPEN

4. Mixture -- SET FOR ALTITUDE
5. Brakes -- RELEASE
6. Elevator Control-- SLIGHTLY TAIL LOW
7. Climb Speed -- 56 KIAS (until all obstacles are cleared)
8. Wing Flaps -- RETRACT slowly after reaching 60 KIAS

ENROUTE CLIMB

1. Airspeed -- 70-85 KIAS
2. Throttle -- FULL OPEN
3. Mixture -- SET FOR ALTITUDE

CRUISE

1. Power -- 2100-2700 RPM (No more than 75% power)
2. Elevator Trim -- ADJUST
3. Mixture -- LEAN

DESCENT

1. Power -- AS DESIRED
2. Mixture -- ADJUST for smooth operation
3. Altimeter -- SET
4. NAV/GPS Switch -- SET
5. Fuel Selector Valve -- BOTH
6. Wing Flaps -- AS DESIRED (0° - 10° below 110 KIAS, 10° - 30° below 85 KIAS)

BEFORE LANDING

1. Pilot and Passenger Seat Backs -- MOST UPRIGHT POSITION
2. Seats and Seat Belts -- SECURED and LOCKED
3. Fuel Selector Valve -- BOTH

4. Mixture -- SET FOR ALTITUDE
5. Landing/Taxi Lights -- ON
6. Autopilot (if installed) -- OFF

NORMAL LANDING

1. Airspeed -- 65-75 KIAS (flaps UP)
2. Wing Flaps -- AS DESIRED
3. Airspeed -- 60-70 KIAS (flaps DOWN)
4. Touchdown -- MAIN WHEELS FIRST
5. Landing Roll -- LOWER NOSE WHEEL GENTLY
6. Braking -- MINIMUM REQUIRED

SHORT FIELD LANDING

1. Airspeed -- 65-75 KIAS (flaps UP)
2. Wing Flaps -- FULL DOWN (30°)
3. Airspeed -- 61 KIAS (until flare)
4. Power -- REDUCE to idle after clearing obstacle
5. Touchdown -- MAIN WHEELS FIRST
6. Brakes -- APPLY HEAVILY
7. Wing Flaps -- RETRACT

BALKED LANDING

1. Throttle -- FULL OPEN
2. Wing Flaps -- RETRACT TO 20°
3. Climb Speed -- 60 KIAS
4. Wing Flaps -- 10° (until obstacles are cleared)
5. Wing Flaps -- RETRACT (after reaching a safe altitude and 65 KIAS)

AFTER LANDING

1. Wing Flaps -- UP
2. Mixture -- LEAN FOR TAXI

SECURING AIRPLANE / SHUTDOWN

1. Throttle -- 1000 RPM
2. Electrical Equipment, Autopilot (if installed) -- OFF
3. Avionics Master Switch -- OFF
4. Mixture -- IDLE CUTOFF (pulled full out)
5. Ignition Switch -- OFF
6. Master Switch -- OFF
7. Control Lock/Pitot Tube Cover -- INSTALL