

Cessna C-172N Checklist



INTERIOR PREFLIGHT

Required Documents.....On Board
Fuel Selector.....Cycle, then Both
Ignition Switch.....Off
Master Switch.....On
Avionics Master.....On
Hobbs/Tach Time.....Check
Battery Volts.....Min 22V
Fuel Quantity.....Check
Flaps.....Extend
Lights/Pitot Heat.....Check
All Electrical Switches.....Off

EXTERIOR PREFLIGHT

FUSELAGE/TAIL:

Baggage Door.....Secure
Antennas.....Check
Left Fuselage.....Check
Left Elevator.....Check
Rudder.....Check
Right Elevator.....Check
Trim Tab.....Check
Right Fuselage.....Check

RIGHT WING:

Flap.....Check
Aileron.....Check
Wingtip/Lights.....Check
Leading Edge.....Check
Fresh Air Inlet.....Check
Main Wheel/Brakes.....Check
Fuel Sump.....Sample
Fuel Quantity.....Check

NOSE:

Windshield.....Check/Clean
OAT Probe.....Check
Oil.....5 Qts Min
Fuel Strainer.....Drain (2 Secs.)
Cowling.....Check Secure
Propeller/Spinner.....Check
Alternator Belt.....Check
Landing Light.....Check
Air Filter.....Check
Nose Wheel/Strut.....Check
Static Port (left side).....Check

EXTERIOR PREFLIGHT (CON'T)

LEFT WING:

Main Wheel/Brakes.....Check
Fuel Sump.....Sample
Fuel Quantity.....Check
Pitot Tube.....Check
Fuel Tank Vent.....Check
Stall Warning Vent.....Check
Leading Edge.....Check
Wingtip/Lights.....Check
Aileron.....Check
Flap.....Check

BEFORE START

Preflight.....Complete
Passenger Briefing.....Complete
Belts/Seats.....Secure
Circuit Breakers.....Check/In
Avionics Master.....Off
Fuel Selector Valve.....Both

ENGINE START

Brakes.....Hold
Master Switch.....On
Avionics Master.....On
Aircraft Lights.....Set
Nav Database Updates.....Check
Throttle.....1/4" Open
Carb Heat.....Off
Mixture.....Rich
Prime.....3-4 Cold
0-2 Hot
Propeller Area.....Clear
Starter.....Engage
Throttle.....800-1,000 RPM
Oil Pressure.....Check Positive

BEFORE TAXI

Ammeter.....Check 28V
Flaps.....Up
Mixture.....Lean
Avionics.....Set
Verify AHRS Calibration Complete
Flight Instruments.....Check
Transponder.....Set Code/ALT
Aircraft Lights.....Set
Brakes.....Test

RUN UP

Brakes.....Hold
Flight Controls.....Free & Correct
Mixture.....Rich
Oil Temp.....>75 °
Throttle.....1,700 RPM
Magnetos.....Check

Max drop 125 RPM, Max Diff 50 RPM

Carburetor Heat.....Check
Ammeter.....Check Positive
Oil Temp.....Check Green (> 75)
Oil Pressure.....Check Green (55-95)
Throttle.....Idle Check
Throttle.....800-1,000 RPM
Throttle Friction Lock.....Adjust
Primer.....In/Locked
Circuit Breakers.....Check
Brake.....Release

BEFORE TAKEOFF

Cabin Doors/Windows.....Latched
Trim.....Set for Takeoff
Flaps.....Set
Magnetos.....Both
Mixture.....Rich
Carburetor Heat.....Off
Aircraft Lights.....Set
Flight Instruments.....Check
Takeoff Briefing.....Complete

TAKEOFF BRIEF

Runway.....Verify
Flaps.....Set
Reject Considerations.....Brief

CLIMB

Flaps.....Up
Aircraft Lights.....Set

CRUISE

Throttle.....Set
Mixture.....Set
Aircraft Lights.....Set

DESCENT

Weather.....Check
Avionics.....Set/Check
Carburetor Heat.....Set
Mixture.....Rich
Approach Briefing.....Complete

BEFORE LANDING

Fuel Selector.....Both
Aircraft Lights.....Set
Carburetor Heat.....On
Mixture.....Rich
Flaps.....Set
Approach Airspeed.....55-65 KIAS

AFTER LANDING

Flaps.....Up
Trim.....Set for Takeoff
Aircraft Lights.....Set
Carburetor Heat.....Off
Pitot Heat.....Off
Mixture.....Lean

SHUTDOWN

Throttle.....Idle
Magneto.....Check
Mixture.....Idle Cut-Off
Aircraft Lights.....Off
Nav Light.....ON
Avionics Master.....Off
Magnetos.....Off
Master Switch.....Off
Flight Plan.....Cancel
Brakes.....Released

Important Speeds KIAS

Vs0 41 KIAS
Vs1 47 KIAS
Vrotat 55 KIAS
Vx 59 KIAS
Vy 73 KIAS
Vfe 85 KIAS
Va (maneuvering) 80 – 97 KIAS
Vno 128 KIAS
Vne 160 KIAS
Normal Approach 65 KIAS
Best Glide 65 KIAS

Cessna C-172

Emergencies & Abnormals

LAKE ELMO

AERO

Engine Fire-Start

Starter Continue Cranking
Mixture Idle Cut-Off
Throttle Full Open
Fuel Selector Off

If Fire Continues
EVACUATE AIRCRAFT and call 911

Engine Failure-Flight

Airspeed Pitch for Best Glide
Fuel Selector Switch Tanks
Mixture Rich
Carburetor Heat On
Magnetos Check
Primer In/Locked
Engine Gauges Check

If power is not restored proceed to
POWER OFF LANDING

Engine Fire-Flight

Mixture Idle Cut-Off
Fuel Selector Off
Throttle Idle
Heater/Defroster Off

If fire continues, proceed to:
EMERGENCY DESCENT, LINE 3
If fire appears out, proceed to:
POWER OFF LANDING

Carburetor Icing

Carburetor Heat On
Mixture Adjust for Smoothness

Emergency Descent

1. Throttle Idle
2. Mixture Rich
3. Bank 30° – 45°
4. Pitch Vne

Prepare for **POWER OFF LANDING**

Power Off Landing

Airspeed Best Glide
Place to Land Locate
Passengers Prepare

If time and altitude permit:
Transponder 7700
Radios Transmit 121.5
ELT On

When committed to landing:
Throttle Idle
Mixture Idle Cut-Off
Magnetos Off
Master Switch Off
Fuel Selector Off
Belts/Shoulder Harness Secure
Doors Unlock

Engine Roughness

Carburetor Heat On
Mixture Adjust for Smoothness
Fuel Selector Switch Tanks
Engine Gauges Check
Magnetos "L" then "R"
Magneto Switch then "BOTH"

If roughness continues after one min:
Carburetor Heat Off

*If operation is satisfactory on either one,
continue on that magneto, at reduced
power and full "RICH" mixture, to nearest
airport.*

Prepare for **POWER OFF LANDING**

Loss of Oil Pressure

Engine Power Reduce
Oil Temp Monitor

Land as Soon as Practical

Prepare for **POWER OFF LANDING**

High Oil Temperature

Mixture Rich
Throttle Reduce
Airspeed Increase if possible
Oil Pressure Monitor
Oil Temp Monitor

If temperature cannot be reduced
Land As Soon as Practical

Electrical Failure

LOW VOLTAGE light illuminated:
Ammeter Check Amps 0
ALT Switch Off
Electrical Load Reduce
ALT Circuit Breaker Check/Reset
ALT Switch On

Power not restored:
ALT Switch Off
Electrical Load Reduce Load
Instrument Conditions Exit or Avoid

Land As Soon as Practical

Electrical Fire

Batt/Alt Master Switch Off
Backup Instrument Push Button
Fresh Air Vents Open if Needed
Heat/Defroster Off

If fire continues proceed to
EMERGENCY DESCENT
*If fire is out, *Land as soon as Possible**

Electrical Overload

BATT Master Switch Off
ALT Switch On
Electrical Load Reduce

If Amps are reduced
BATT Master Switch On
Ammeter Monitor

If Amps are not reduced:
ALT Switch Off
BATT Switch On ONLY If Required

Land As Soon as Practical

Spin Recovery

Power Idle
Ailerons Neutral
Rudder FULL OPPOSITE
(to the direction of rotation)
Elevator Push forward to break stall

When Rotation Stops
Rudder NEUTRAL
Elevator Recover to Level Flight
Throttle Set

