

Cessna 172N Checklist

—INTERIOR PREFLIGHT—

Pitot tube Cover.....Remove
 Hobbs and Tach.....Check
 Certificates and Documents.....Check
 Control Wheel Lock.....Remove
 Fuel Selector.....Both)
 Cabin Air/Heat.....Set
 Alternate Static Air.....Off (In)
 Mixture.....Idle Cut-Off
 Throttle.....Idle
 Carb Heat.....Off
 Interior Lights.....Off
 Avionics Master.....Off
 Switches.....Off
 Circuit Breakers.....In
 Magnetos.....Off
 Master Switch.....On
 Flaps.....Extend(Check Visually)
 Fuel Qty Indicators.....Check
 Avionics Master.....On
 Avionics functionality.....Verify
 Avionics Master.....Off
 Lights and Pitot Heat.....Check
 Master Switch / All Switches.....Off
 Fire Extinguisher.....Check Pressure

—EXTERIOR PREFLIGHT—

Fuselage and Windows.....Check
 Empennage.....Check
 Control Surfaces.....Check
 Tail Tie Down.....Remove
 Trim Tab.....Check
 Antennas.....Check
 Windows and Fuselage.....Check
 Right Flap and Aileron.....Check
 Right Wingtip Condition / LightsCheck
 Right Wing Lower Surface.....Check
 Right Wing Leading Edge.....Check
 Right Wing Tie Down.....Remove
 Right Main Gear Assembly.....Check
 Fuel Sump.....Sample
 Fuel Selector Quick Drain Valve...Sample
 Exhaust.....Check
 Fuel Quantity.....Check
 Fuel Filler Cap.....Secure
 Right Wing Upper Surface.....Check

Antennas.....Check
 Windshield.....Check & Clean
 Cowling (Right Side).....Secure
 Oil Quantity.....6-8 Quarts(Fly at 6 Quarts)
 Fuel Strainer.....Sample
 Landing and taxi Lights.....Check
 Engine Cooling Air Inlets.....Clear
 Alternator Belt.....Check
 Propeller and Spinner.....Check
 Air Filter.....Check
 Nose Wheel Strut and Tire.....Check
 Cowling (Left Side).....Check
 Static Port.....Check
 Left Wing Leading Edge.....Check
 Pitot Tube.....Check
 Stall Warning Opening.....Check
 Fuel Tank Vent.....Check
 Left Wing Tie Down.....Remove
 Left Wingtip Condition / LightsCheck
 Left Wing Lower Surface.....Check
 Left Aileron and Flap.....Check
 Left Main Gear Assembly.....Check
 Fuel Sumps.....Sample
 Fuel Quantity.....Check
 Fuel Filler Cap.....Secure
 Left Wing Upper Surface.....Check
 Baggage Door.....Check Locked

—BEFORE START—

Preflight Inspection.....Complete
 Seats / Belts.....Adjust and Lock
 Cabin Doors.....Closed
 Passengers.....Secured / Briefed
 Brakes.....Hold

—ENGINE START—

Mixture.....Rich
 Throttle.....Open SLIGHTLY
 Carb Heat.....Off
 Master Switch.....On
 Beacon.....On
 Strobes.....On
 Navigation Lights.....(Night Ops)
 Prime(if cold)(3-6 Strokes)
 Area.....Clear(Visually and Verbally)
 Starter.....Engage
 Throttle.....1000 RPM
 Engine Instruments.....Check

—BEFORE TAXI—

Mixture.....Lean
 Flaps.....Up(Check Visually)
 Circuit Breakers.....In
 Avionics Master.....On
 Avionics.....Set and Check
 Flight Instruments.....Set and Check
 Taxi Area.....Clear
 Brakes.....Release

—TAXI—

Brakes.....Check
 Flight Instruments.....Check

—BEFORE TAKEOFF—

Brakes.....Hold
 Flight Controls.....Free and Correct
 Fuel Selector.....Both
 Autopilot.....Test
 Trim.....Set for Takeoff
 Mixture.....Rich
 Throttle.....1700 RPM
 Magnetos.....Check
Max Drop 150 RPM
Max Difference 50 RPM
 Amps/Volts.....Check
 Vacuum Gauge.....Check
 Engine Instruments.....Check
 Carb heat.....On Check for RPM drop
 Throttle.....Idle, Then 1000 RPM
 Carb heat.....Off
 Circuit Breakers.....In
 Autopilot.....Off
 Pitot Heat.....As Required

*Seats / Belts.....Secure
 Doors/windows.....Closed & Locked
 Flaps.....Set for Takeoff
 Flight Instruments.....Set and Check
 Strobes.....On
 Landing Light.....On
 Transponder.....ALT / Check code
 Mixture.....Rich*

Takeoff Briefing.....Complete

—CLIMB—

Flaps.....As Required
 Climb Airspeed.....73 KIAS
 At 500 Ft. AGL.....Flaps Up

—CRUISE—

Cruise Power.....Set
 Mixture.....Set
 Fuel Selector.....Set
 Landing Light.....Off
 Pitot Heat.....As Required

—DESCENT—

Seats / Belts.....Secure
 Fuel Selector.....Both
 Mixture.....Set
 Carb Heat.....As required
 Descent Power.....Set
 Pitot Heat.....As Required
 Engine / Flight Instruments.....Set / Check
 Avionics.....Set and Check
 Approach Briefing.....Complete

—BEFORE LANDING—

*Seats / Belts.....Secure
 Fuel Selector.....Both
 Mixture.....Rich
 Landing Light.....On
 Magnetos.....Both
 Engine Gauges.....Check
 Carb heat.....on with power
 reduction*

Autopilot.....Off

—AFTER LANDING—

*Mixture.....Lean (EGT / RPM)
 Transponder.....ALT
 Flaps.....Up
 Carb heat.....Off
 Landing Light.....Off
 Lights.....As required
 Trim.....Set For Takeoff*

Flight Plan.....Close

—SHUTDOWN—

Avionics Master.....Off
 Mixture.....Idle Cut-Off
 Magnetos.....Off
 All Switches / LightsOff
 Master Switch.....Off
 Fuel Selector.....Left or Right
 Control Lock.....Install
 Hobbs and Tach.....Record
 Seat Belts.....Secure
Doors.....Lock
 Cowl Plugs/Pitot Cover.....Install
 Aircraft.....Tie Down

 = Pattern Work

Cessna 172N Emergency Procedures

—V-SPEEDS—

V_r.....55-60 KIAS
V_{SO}.....40 KIAS
V_{S1}.....50KIAS
V_X.....62 KIAS
V_Y.....73 KIAS
V_{FE}.....110 KIAS (10 degrees)
.....85 KIAS (20-30 degrees)
V_A.....105 KIAS @ 2550 lbs.
.....95 KIAS @ 2150 lbs.
.....85 KIAS @ 1750 lbs.
V_{NO}.....127 KIAS
V_{NE}.....158 KIAS
Best Glide.....68 KIAS
Oil.....Min. 6 Max. 8 qt.
Max. Takeoff/Landing Weight...2550 LBS.

FLOODED ENGINE START

Throttle.....Open half way
Mixture.....Idle cut off
Propeller area.....Clear
Crank engine. Once engine fires advance mixture to full rich **AND PROMPTLY RETARD THROTTLE TO IDLE!!!!!!** to avoid engine damage.

—ENGINE FAILURES—

—DURING TAKEOFF—

Throttle.....Idle
Brakes.....Apply
Mixture.....Idle Cut-Off
Ignition.....Off
Master Switch.....Off

—IMMEDIATELY AFTER —

—TAKEOFF—

Airspeed.....70 KIAS (Flaps UP)
.....**65 KIAS (Flaps DOWN)**
Mixture.....Idle Cut-Off
Ignition Switch.....Off
Flaps.....As Required
Master Switch.....Off
Cabin Door.....Unlatch
Land.....As Briefed

—IN CRUISE FLIGHT—

(RESTART PROCEDURE)

Airspeed.....68 KIAS(Best Glide)
Possible Landing Area.....Identify
Fuel Selector.....Both
Carb heat.....On (out)
Mixture.....Rich
Ignition Switch.....Both or
.....Start (if propeller stopped)

—FORCED LANDINGS—

—WITHOUT ENGINE POWER—

Transponder.....7700
Radio(s).....121.5 (if time permits)
Seats / Belts.....Upright / Locked
Airspeed.....70 KIAS (Flaps UP)
.....**65 KIAS (Flaps DOWN)**
Place to Land.....Pilot Option
Mixture.....Idle Cut-Off
Ignition.....Off
Flaps.....As Required
.....(30° recommended)
Master Switch.....Off
Doors.....Unlatch
Cockpit/Passengers.....Prepare

—FIRES—

—ENGINE FIRE DURING START—

Cranking.....Continue
If Engine Starts:

Throttle.....1700 RPM for 3 minutes
Engine.....Shutdown and Inspect

If Engine Does NOT Start:

Throttle.....Full
Mixture.....Idle Cut-Off
Cranking.....Continue
Extinguisher.....Obtain
Engine.....Secure
Master Switch.....Off
Ignition.....Off
Brakes.....Off
EVACUATE AND EXTINGUISH FIRE IF POSSIBLE
Aircraft.....Inspect for Damage

—ENGINE FIRE IN FLIGHT—

Mixture.....Idle Cut-Off
Master Switch.....Off
Heat and Air.....Off
Airspeed.....100 KIAS
EXECUTE FORCED LANDING WITHOUT ENGINE POWER

—ELECTRICAL FIRE IN FLIGHT—

Master Switch.....Off
Vents, Cabin Air.....Closed
Avionics Master.....Off
Electrics (except ignition).....Off
Fire.....Extinguish
When Fire is Out, if electrical power is necessary:
Master Switch.....On
Breakers.....Check / Do Not Reset
Radios Electrical.....On, one at a time

Always Check POH For Other Emergency Checklists



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