

Cessna 172N Normal Checklist

PREFLIGHT

Cabin

Documents----- AROW
Control Lock -----REMOVE
Magnetos -----OFF
Avionics Master -----OFF
Master-----ON
Fuel Quantity Indicators ----- CHECK
Flaps-----DOWN
Lights & Pitot Heat-----ON
Check Lights, then-----OFF
Master-----OFF
Fuel Selector - CHECK EA. POSITION
Baggage Door-----SECURE

Empennage

Tail Tie-down -----REMOVE
Control Surfaces -----FREE, CLEAR

Right Wing

Flap----- CHECK
Aileron -----FREE, CLEAR
Wing Tie-down -----REMOVE
Main Wheel Tire----- CHECK
Fuel Sump -----DRAIN & CHECK
Fuel Qty----- VISUAL CHECK
Fuel Filler Cap-----SECURE

Nose

Engine Oil ----- CHECK (4-6)
Fuel Strainer-----DRAIN & CHECK
Prop & Spinner ----- CHECK
Carburetor Air Filter ----- CHECK
Nose Wheel & Strut----- CHECK
Static Source ----- CHECK

Left Wing

Main Wheel Tire----- CHECK
Fuel Sump ----- DRAIN & ☒
Fuel Qty-----VISUAL ☒
Fuel Filler Cap-----SECURE
Pitot Tube----- CHECK
Fuel Tank Vent ----- CLEAR
Stall Warning Vane ----- ☒
Wing Tie down -----REMOVE
Aileron ----- CHECK
Flap----- CHECK

BEFORE START

Preflight ----- COMPLETE
Passenger Brief----- COMPLETE
Seats, Seat Belts----- SECURE
Fuel Selector-----BOTH
Avionics----- OFF
Brakes -----HOLD
Circuit Breakers----- ALL IN

STARTING

Mixture-----RICH
Carburetor Heat -----COLD
Beacon -----ON
Master -----ON
Prime ----- AS REQUIRED
Throttle----- OPEN 1/8"
Propeller ----- CLEAR
Magnetos----- START
Oil Pressure-----CHECK
Avionics-----ON
Mixture----- LEAN 1"
Flaps ----- UP
Transponder -----STANDBY

TAXI

Brakes -----TEST
Turn Instruments-----CHECK

VFR Day Minimum Equipment:

Gas Gauges, Oil Temp, Oil Pres., Seat Belts, ELT,
Altimeter, Compass, Airspeed indicator, Tach.

VFR Night Minimum Equipment:

Position Lights (NAV), Anti-Collision Lights
(beacon, strobes), Landing Light (if for hire),
Electrical source, Spare fuses.

IFR Minimum Equipment:

Directional Gyro

Electrical source

Clock (h:m:s)

Altimeter (pressure sensitive)

Radios appropriate for navigational aids to be used

Attitude indicator

Turn Coordinator

VOR Check last 30 days

Cessna 172N Normal Checklist

BEFORE TAKEOFF

Brakes-----HOLD
Doors, Windows -- CLOSED, LOCKED
Flight Controls ----- CHECK
Flight Instruments ----- CHECK
Fuel Selector ----- BOTH
Mixture ----- RICH
Trim -----TAKEOFF
Throttle ----- 1700 RPM
Magnetos----- CHECK (125/50)
Engine Instruments ----- ☒
Ammeter ----- CHECK
Suction ----- CHECK
Carburetor Heat -----ON
Idle ----- CHECK
Throttle----- 1000 RPM
Radios -----SET
Departure -----REVIEW

ABORT PLAN READY

LINEUP

Time----- RECORD
Altitude ----- SQUAWK
Icing -----ON, as req'd
Lights -----ON, as req'd
HI to Compass -----SET

TAKEOFF

Flaps----- UP
Throttle -----FULL
Rotate ----- 55(Vr)
Climb Speed----- 74 (Vy)

V Speeds

Vne 160	Vno 128
Vr 55	Vs 47
Vy 73	Vso 41
Vx 60	Best Glide 65
Vwindow 160	Max Xwind 15
Vfe: 10° 110 10° - 40° 85	Va: 2300Lbs 97 1950Lbs 89 1600Lbs 80

CLIMB

Airspeed----- 70 – 85 KIAS
Throttle----- FULL
Mixture----- LEAN ABOVE 3000'
HI to Compass-----SET
Engine Instruments -----CHECK

CRUISE

Power-----2200–2700rpm (75% max)
Trim -----SET
Mixture----- LEAN
Landing Lights ----- OFF

DESCENT

Mixture-----ADJUST
Power-----As Req'd
Carburetor Heat -----As Req'd
Landing Light -----ON

BEFORE LANDING

Seats, Seat Belts, Harnesses -- SECURE
Fuel Selector-----BOTH
Mixture-----RICH
Carburetor Heat -----ON

ABC GUMPS

GO AROUND

Cram It ----- FULL THROTTLE
Climb It ----- POSITIVE RATE CLIMB
Clean It -----FLAPS UP, in increments
Cool It ----- Carburetor Heat OFF
Call It ----- Announce Missed/go around

AFTER LANDING

Carburetor Heat -----COLD
Flaps ----- UP
Mixture----- LEAN 1"
Transponder -----STANDBY
Ldg Light -----OFF, As req'd

SECURING

Avionics Master----- OFF
Lights----- OFF, Beacon ON
Magnetos----- GROUND CHECK
Mixture----- IDLE CUTOFF
Magnetos----- OFF
Master ----- OFF
Control Lock ----- INSTALL

Cessna 172N Emergency Checklist

ENGINE FAILURE AFTER TAKEOFF

Airspeed..... 65
Mixture IDLE CUTOFF
Fuel Selector..... OFF
Magnetos OFF
Flaps AS DESIRED
Master OFF

ENGINE FAILURE DURING FLIGHT

Airspeed..... 65
Carburetor Heat ON
Fuel Selector..... BOTH
Mixture RICH
Magnetos .BOTH (or start if prop stopped)
Primer IN & LOCKED

EMERGENCY LANDING, NO POWER

Airspeed..... 65
Mixture IDLE CUTOFF
Fuel Selector..... OFF
Magnetos OFF
Flaps AS DESIRED (40° rec)
Master OFF
Doors UNLATCH
Touchdown..... SLIGHTLY TAIL LOW
Brakes..... APPLY HEAVILY

PRECAUTIONARY LANDING W/ POWER

Flaps 20°
Airspeed..... 60
Selected Field Fly Over, Note Terrain
Avionics & Electrical OFF
Flaps 40°
Airspeed..... 60
Master OFF
Doors UNLATCH
Touchdown..... SLIGHTLY TAIL LOW
Magnetos OFF
Brakes..... APPLY HEAVILY

DITCHING

Radio MAYDAY on 121.5
Squawk 7700
Approach
 High Winds, Heavy Seas INTO WIND
 Light Winds, Heavy Swells .. PARALLEL
Flaps 20°
Power..... 300ft/min DESCENT @ 55kts
Doors UNLATCH
Touchdown..... LEVEL ATTITUDE
Face CUSHION
Airplane EVACUATE

FIRE DURING START

Cranking CONTINUE

If engine starts:

Power 1700 RPM
Engine SHUTDOWN

If engine fails to start:

Throttle FULL OPEN
Mixture IDLE CUTOFF
Cranking CONTINUE
Fire Extinguisher OBTAIN
Engine SECURE
Master OFF
Magnetos OFF
Fuel Selector OFF
Fire Extinguisher USE

ENGINE FIRE IN FLIGHT

Mixture IDLE CUTOFF
Fuel Selector..... OFF
Master..... OFF
Cabin Heat & Air OFF
Airspeed 100 KIAS or more to Extinguish
Forced Landing EXECUTE

Cessna 172N Emergency Checklist

ELECTRICAL FIRE IN FLIGHT

Master OFF
Avionics..... OFF
All Other Switches..... OFF(except mags)
Vents, Cabin Air/Heat CLOSED
Fire Extinguisher ACTIVATE
If Fire is Out OPEN VENTS
If Electrical Required for Flight:
Master OFF
Circuit Breakers..... ☒ IN, DONT RESET
Radios OFF
Avionics..... ON
Radios / Electrical..... ON, One at a Time
Vents, Cabin Air / Heat ON

CABIN FIRE

Master OFF
Vents, Cabin Air / Heat OFF
Fire Extinguisher ACTIVATE
If Fire Out OPEN VENTS
LAND ASAP

WING FIRE

Navigation Lights OFF
Strobes OFF
Pitot Heat..... OFF
Side Slip AWAY FROM FIRE
LAND ASAP

ICING

Pitot Heat..... ON
Turn Back or Change Altitude
Cabin Heat ON
Defroster Outlett OPEN
Increase Engine Speed to Minimize Prop Ice
Watch for Signs of Carburetor Ice.

AMMETER SHOWS EXCESSIVE RATE OF CHARGE

(full scale deflection)

Alternator..... OFF
Nonessential Electrical OFF
Flight TERMINATE

LOW-VOLTAGE LIGHT DURING FLIGHT

(Ammeter Indicates Discharge)

Avionics Master OFF
Master..... OFF (both sides)
Master..... ON
Low-Voltage Light..... CHECK OFF
Avionics Master ON
If low-voltage light illuminates again:
Alternator OFF
Nonessential Radio / Electrical OFF
Flight TERMINATE

RADIO FAILURE

Microphone Buttons..... NOT STUCK
Comm Panel..... CORRECT RADIO
Radio ON, CHECK SQUELCH
Volume UP
Frequency CORRECT
Headset or Mic PLUGGED IN
Intercom ON, Volume, Squelch up
Circuit Breakers..... IN
Avionics Master ON
Master..... ON
Load Meter POSITIVE CHARGE
Transponder..... 7600

AIRSPEEDS FOR EMERGENCYS

Engine Failure after Takeoff:

Flaps UP 65 KIAS
Flaps Down 60 KIAS

Maneuvering Speed:

2300Lbs..... 97 KIAS
1950Lbs..... 89 KIAS
1600Lbs..... 80 KIAS

Maximum Glide 65 KIAS

Precautionary LDG w/ Power .. 60KIAS

Landing w/o Power:

Flaps Up 65 KIAS
Flaps Down 60 KIAS