



Aircraft Checklist

Cessna 172N

This is an abbreviated checklist. Most explanatory items, notes cautions and warnings have been omitted for brevity. Procedures in red/bold text of this checklist should be committed to memory.

All performance speeds should be computed prior to flight using the Aircraft Owner's Manual. This checklist is for training purposes only; users must be familiar with and operate in accordance with the official Aircraft Owner's Manual.

Cessna 172N Preflight Checklist

CABIN PREFLIGHT INSPECTION

REMOVE GUST LOCKS & PITOT COVER IF INSTALLED

1. Fuel Quantity CHECK
2. Inspections CHECK DATES and TIMES
3. Weight and CG WITHIN LIMITS
4. Documents CHECK
5. Controls FREE AND CORRECT
6. Ignition Switch OFF
7. Avionics Switch OFF
8. Master Switch ON
9. Fuel Quantity Indicators CHECK
10. Low Vacuum Warning Light (if installed) CHECK ON
11. Flaps EXTEND
12. Interior and Exterior Lights CHECK
13. Pitot Heat CHECK then OFF
14. Master Switch OFF
15. Fuel Selector Valve BOTH
16. Fire Extinguisher CHECK CHARGE

EXTERIOR PREFLIGHT INSPECTION

Empennage

1. Antennas CHECK
2. Baggage Door LOCKED
3. Left Side of Fuselage CHECK
4. Control Surfaces..... CHECK
5. Tail Tie-down..... REMOVE
6. Beacon/Position Light..... CHECK
7. Right Side of Fuselage CHECK

Right Wing

1. Flap, Aileron and Hinges CHECK
2. Wingtip Lights CHECK
3. Wing..... CHECK
4. Wing Tie-down REMOVE
5. Wing Root Vent CLEAR
6. Wheel Assembly CHECK
7. Fuel Tank Sump..... (1) DRAIN and CHECK
8. Fuel Quantity CHECK/ CAP SECURE



Nose

1. Fuel Line Quick DrainDRAIN and CHECK
2. Oil Quantity (4-6 quarts) CHECK
3. Cowling, Propeller and Spinner..... CHECK
4. Air Inlets CLEAR
5. Alternator Belt CHECK
6. Landing Light..... CHECK
7. Carburetor Air Filter CHECK
8. Nose Wheel Assembly..... CHECK
9. Static Port..... CHECK
10. Windshield CLEAN and CHECK

Left Wing

1. Fuel Tank Sump(1) DRAIN and CHECK
2. Fuel QuantityCHECK / CAP SECURE
3. Wing Root Vent CHECK
4. Pitot Tube..... CHECK
5. Stall Warning OpeningCHECK for BLOCKAGE
6. Wing Tie-downREMOVE
7. Fuel Tank VentCHECK for BLOCKAGE
8. Wing..... CHECK
9. Wingtip Lights CHECK
10. Flap and Aileron CHECK
11. Wheel Assembly CHECK

Starting Engine

1. Mixture..... RICH
2. Throttle..... OPEN 1/8 INCH
3. Carburetor Heat..... OFF
4. Beacon..... ON
5. Prime AS REQUIRED/ IN and LOCKED
6. Battery Switch..... ON
7. Propeller Area CLEAR
8. Ignition ENGAGE

Do not crank more than 10 seconds/Allow 20 seconds to cool*

9. Throttle..... 1000 RPM
10. Oil Pressure..... INDICATING GREEN
11. Mixture..... LEAN for TAXI
12. Alternator ON
13. Ammeter CHECK
14. Flaps..... RETRACT
15. Navigation Lights..... AS REQUIRED
16. Avionics Master Switch..... ON
17. TransponderSTANDBY/1200
18. Heading Indicator..... SET
19. ASOS/ATIS OBTAIN
20. Altimeter SET
21. Advisory/Departure & Taxi ClearanceCONTACT

****Refer to POH if engine does not start after 3 attempts***

Taxi

1. Brakes CHECK
2. Instrument Cross-Check..... CHECK

Before Takeoff

1. Nose Wheel..... STRAIGHT
2. Brakes SET and HOLD
3. Flight Controls FREE and CORRECT
4. Primer..... IN/LOCKED
5. Fuel Selector Valve..... BOTH
6. Mixture..... RICH
7. Throttle..... 1700 RPM
8. Mixture..... SET for DENSITY ALTITUDE
9. Carburetor Heat..... CHECK DROP then OFF
10. Magnetos..... (125 max drop, 50 diff.) CHECK
11. Engine Gauges and Ammeter CHECK
12. Suction GREEN ARC
13. Throttle..... CHECK IDLE
14. Throttle..... 1000 RPM
15. Throttle Friction Lock..... ADJUST
16. Communication/Navigation Radios..... SET
17. Flight Instruments SET and CHECKED
18. Fuel Quantities CHECKED
19. Trim..... SET for TAKEOFF
20. Flaps SET for TAKEOFF
21. Cabin Doors & Windows..... CLOSED and LATCHED
22. Seats ADJUSTED/ LOCKED
23. Departure Briefing CLEARANCE / EMERG. PLAN
24. Advisory/ Tower CONTACT

Cleared For Takeoff

1. Lights AS REQUIRED
2. Transponder ALTITUDE
3. Brakes RELEASE
4. Traffic CHECK

Normal Takeoff

1. Wing Flaps RETRACTED
2. Carburetor Heat COLD
3. Throttle FULL OPEN
4. Elevator Control LIFT NOSE AT 55 KIAS
5. Climb Speed 70-80 KIAS

Short Field Takeoff

1. Wing Flaps RETRACTED
2. Carburetor Heat COLD
3. Brakes HOLD
4. Throttle FULL OPEN
5. Engine Gauges GREEN
6. Brakes RELEASE
7. Elevator Control SLIGHTLY TAIL LOW
8. Obstacle Clearance Speed 59 KIAS

After Clearing Obstacle:

9. Airspeed ACCELERATE FOR NORMAL CLIMB
10. Wing Flaps RETRACT



Soft Field Takeoff

1. Wing Flaps 10°*
2. Carburetor Heat..... COLD
3. Elevator Control..... TAIL LOW
4. Throttle..... FULL OPEN
5. Accelerate WHILE IN GROUND EFFECT
6. Climb Speed..... 60 KIAS

*Use of flaps not recommended for take-off over an obstacle in high density altitude conditions.

Enroute Climb

1. Airspeed 70-85 KIAS
2. Throttle..... FULL OPEN
3. Mixture..... AS REQUIRED

Cruise

1. Power SET for CRUISE
2. Trim..... AS REQUIRED
3. Mixture..... LEAN for CRUISE
4. Landing Light..... OFF
5. Heading Indicator..... CROSS-CHECK

Descent

1. ASOS/ATIS OBTAIN
2. Altimeter SET
3. Arrival/Passenger Briefing..... COMPLETE
4. Mixture..... ADJUST AS REQUIRED
5. Power AS REQUIRED
6. Carburetor Heat..... AS REQUIRED
7. Landing Light..... ON
8. Fuel Selector BOTH

Before Landing

1. Seats, Belts and Shoulder Harnesses ADJUST/LOCKED
2. Mixture..... AS REQUIRED

Normal Landing

1. Power AS REQUIRED
2. Airspeed(Flaps UP) 70 KIAS
3. Wing Flaps AS REQUIRED
4. Airspeed (Flaps DOWN) 60 KIAS
5. TouchdownMAIN WHEELS FIRST
6. Brakes APPLY AS NECESSARY

Short Field Landing

1. Power AS REQUIRED
2. Wing Flaps FULL RECOMMENDED
3. Airspeed 60 KIAS
4. Touchdown MAIN WHEELS FIRST
5. Wing Flaps RETRACT
6. Brakes APPLY AS NECCESARY

Soft Field Landing

1. Power AS REQUIRED
2. Wing Flaps FULL RECOMMENDED
3. Airspeed 65 KIAS
4. Touchdown MAIN WHEELS FIRST
5. Landing Roll TAIL LOW

Go Around (Balked Landing)

1. Throttle..... FULL OPEN
2. Carburetor Heat.....COLD
3. Wing Flaps RETRACT TO 20°
4. Climb Speed..... 55 KIAS
5. Wing Flaps 10°
6. Wing Flaps(after clearing obstacles) RETRACT

After Landing / Clear Of Runway

1. Flaps UP
2. Carburetor Heat OFF
3. Mixture LEAN for TAXI
4. Landing Light OFF
5. Strobe Lights OFF
6. Transponder STANDBY
7. Taxi Clearance / Advisory CONTACT

Securing Airplane

1. Avionics Master Switch OFF
2. Throttle IDLE
3. Magnetos CHECK GROUNDING
4. Throttle 1000 RPM
5. Mixture IDLE CUT-OFF
6. Ignition OFF
7. Master Switch OFF
8. Beacon OFF
9. Fuel Selector LEFT/RIGHT
10. Control Lock INSTALL
11. Flight Information RECORD
12. Pitot Tube Cover INSTALL
13. Wheel Chocks & Tie Downs SECURE
14. Post Flight Walk-Around COMPLETE
15. Doors LOCKED

ABNORMAL PROCEDURES

Flooded Start

1. Mixture..... IDLE CUT-OFF
2. Throttle..... FULL OPEN

Proceed with item 3 on “Starting Engine” checklist

Ammeter Shows Excessive Rate Of Charge

1. Alternator OFF
2. Alternator Circuit Breaker PULL
3. Nonessential Electrical Equipment OFF
4. Flight LAND AS SOON AS PRACTICAL

Low Voltage Light Illuminates In Flight

1. Radios OFF
2. Alternator Circuit Breaker CHECK IN
3. Alternator Switch OFF then ON
4. Low Voltage Light CHECK OFF
5. Radios ON

If Low Voltage Light Illuminates Again:

6. Alternator OFF
7. Nonessential Electrical Equipment OFF
8. Flight TERMINATE

Landing With A Flat Main Tire

1. Flaps..... AS REQUIRED
2. Approach..... NORMAL
3. Touchdown GOOD TIRE FIRST
4. Directional Control MAINTAIN
(using brake on good tire)

Landing With A Flat Nose Tire

1. Flaps..... AS REQUIRED
2. Approach..... NORMAL
3. Touchdown MAIN GEAR FIRST
4. Elevator AS NECESSARY TO DELAY
NOSE GEAR CONTACT

Maintain full aft elevator deflection during ground roll

EMERGENCY CHECKLIST

This is an operational checklist. Procedures in red/bold text in this section should be committed to memory. The official aircraft AFM contains additional procedures and expanded procedures not listed in this checklist. Users should be familiar with all procedures

Airspeeds For Emergency Operation

Engine Failure after Takeoff 65 KIAS
Maximum Glide 65 KIAS

Landing Without Engine Power:

Flaps Up 65 KIAS
Flaps Down 60 KIAS

Engine Failure Immediately After Takeoff

1. Airspeed(Flaps Up)65 KIAS
(Flaps Down).....60 KIAS
2. Mixture..... IDLE CUT-OFF
3. Fuel Selector ValveOFF
4. Ignition SwitchOFF
5. FlapsAS REQUIRED
6. Master Switch.....OFF
7. LandSTRAIGHT AHEAD

Engine Failure / Power Loss During Flight

1. Airspeed65 KIAS
2. Carburetor Heat.....ON
3. Fuel Shutoff Valve.....BOTH
4. Mixture..... RICH
5. Throttle OPEN
6. Magnetos..... CHECK BOTH
7. Primer IN and LOCKED

Emergency Landing Without Engine Power

1. Airspeed(Flaps DOWN).....60 KIAS
2. Landing Site.....DETERMINE
3. Seats, Seatbelts, Shoulder Harnesses SECURE
4. Mixture..... IDLE CUT-OFF
5. Fuel Selector Valve..... OFF
6. Ignition Switch..... OFF
7. Flaps AS REQUIRED
8. Master Switch OFF
9. Doors..... UNLATCH
10. TouchdownSLIGHTLY TAIL LOW
11. Brakes APPLY AS NECESSARY

Precautionary Landing With Engine Power

1. Seats, Seatbelts, Shoulder Harness SECURE
2. Airspeed 60 KIAS
3. Selected Field..... FLY OVER
4. Flaps..... AS REQUIRED
5. Airspeed 60 KIAS
6. Master Switch OFF
7. Ignition..... OFF
8. Doors..... UNLATCH
9. TouchdownSLIGHTLY TAIL LOW
10. BrakesAPPLY

Fire During Engine Start

- 1. Cranking CONTINUE**

If Engine Starts:

2. Power 1700 RPM
3. EngineSHUTDOWN

If Engine Fails to Start:

- 4. Cranking CONTINUE**
- 5. ThrottleFULL OPEN**
- 6. Mixture..... IDLE CUT-OFF**
- 7. Master Switch.....OFF**
- 8. Ignition SwitchOFF**
- 9. Fuel Selector ValveOFF**
- 10. Fire ExtinguisherOBTAIN**

Engine Fire In Flight

1. Mixture..... **IDLE CUT-OFF**
2. Fuel Selector Valve **OFF**
3. Master Switch..... **OFF**
4. Cabin Heat and Air..... **CLOSED**
5. Wing Root Vents..... **OPEN**
6. Airspeed **100 KIAS**
7. Forced Landing **EXECUTE**

Electrical Fire In Flight

1. Master Switch..... **OFF**
2. Vents, Cabin Heat and Air **CLOSED**
3. All Electrical Switches (except ignition) **OFF**
5. Fire Extinguisher **AS APPROPRIATE**

If Fire Appears Out:

4. Master Switch **ON**
5. Circuit Breakers **CHECK (do not rest)**
6. Avionics Master Switch **ON**
7. Radio and Electrical Switches **(one at a time) ON**

Cabin Fire

1. Master Switch..... **OFF**
2. Vents, Cabin Heat and Air **CLOSED**
3. Fire Extinguisher (if available)..... **ACTIVATE**
4. Forced Landing **EXECUTE**

Wing Fire

1. Navigation Light Switch.....**OFF**
2. Strobe Light Switch**OFF**
3. Pitot Heat Switch.....**OFF**

Perform A Side Slip To Keep The Flames Away From The Fuel Tank And Cabin, And Land As Soon As Possible With Flaps Retracted.

Should any mechanical difficulty, accident, incident or delay occur, please contact a Leading Edge Aviation representative before continuing any flight. **DO NOT FLY** any aircraft that may have been damaged, until it has been inspected and certified airworthy by a certified mechanic. Call Leading Edge Aviation 435-752-5955.

Passenger/Crew Briefing Checklist

Before Engine Start:

1. Normal and emergency exit procedures
2. Seatbelt operations
3. Fire extinguisher location & operations
4. Identify PIC for the flight
5. Positive exchange of flight controls process

Before Take-Off:

1. Verify runway in use
2. Type of take-off
3. Direction of departure (VFR)
4. Departure clearance (IFR)
5. Emergency plan
 - a. Emergency on runway
 - b. Emergency after liftoff
 - c. Emergency at altitude
 - d. Flying/non-flying pilot roles during emergency operations

Approach:

1. Verify runway in use
2. Type of landing
3. Expected crosswind direction/intensity
4. Traffic pattern (VFR)
5. Instrument approach briefing (IFR)

Emergency Transponder Codes:

Air Piracy: 7500
Lost Communication: 7600
General Emergency: 7700

Emergency 2-Way Communication Frequency:

Guard Frequency: 121.5