

180hp CESSNA 172N NORMAL CHECKLISTS

PREFLIGHT INSPECTION

PREFLIGHT—Cabin

- A-R-O-W Papers Checked
- Control Lock Remove
- Magnetos Off
- Avionics Master Switch Off
- Master Switch On
- Fuel Quantity Indicators Check Quantity
- Wing Flaps Down
- Rotating Beacon Check
- Master Switch Off
- Baggage Door Check

PREFLIGHT—Empennage

- Rudder Gust Lock Remove
- Tail Tiedown Check
- Control Surfaces Check

PREFLIGHT—Right Wing

- Aileron Check
- Wing Tiedown Remove
- Main Wheel Tire & Brake Pads Check
- Fuel Sample Obtain
- Fuel Quantity Check Visually
- Fuel Filler Cap Secure

PREFLIGHT—Nose

- Engine Oil Level Check (> 6 qts)
- Fuel Strainer Check
- Propeller and Spinner Check
- Landing Light Check
- Nose Wheel Strut and Tire Check
- Flight Instrument Static Source Check

PREFLIGHT—Left Wing

- Main Wheel Tire & Brake Pads Check
- Fuel Sample Obtain
- Fuel Quantity Check Visually
- Fuel Filler Cap Secure
- Pitot Tube Cover Remove
- Fuel Tank Vent Opening Check
- Stall Warning Opening Check
- Wing Tiedown Remove
- Aileron Check

PASSENGER BRIEFING

- No Push Areas
- Seat & Belt Adjustments
- No Touch Controls & Instruments
- I will close and lock door
- Emergency Exit Procedure
- Vent & Heat Locations
- Intercom Operation
- Quiet During Radio Calls
- Look for Traffic

BEFORE START CHECKLIST

- Preflight & Passenger Briefing Complete
- Seats / Belts / Harnesses Adjusted & Locked
- Fuel Selector Valve Both
- Avionics Master Switch Off
- Circuit Breakers Check In
- Brakes Hold

STARTING ENGINE CHECKLIST

- Carburetor Heat Cold
- Mixture Rich
- Throttle Open 1/8 Inch
- Prime 2 to 6 Strokes
- Master Switch On
- Rotating Beacon On
- Prop Area CLEAR
- Ignition Switch Start
- Throttle 1,000 RPM Max
- Oil Pressure Check
- Mixture Lean For Taxi

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AFTER START CHECKLIST

- Wing Flaps Up
- Avionics Master Switch On
- ATIS Obtain
- Altimeter Set
- Heading Indicator Set
- Transponder STBY

TAXI CHECKLIST

- Brakes Test
- Turn Coordinator, Attitude Indicator, HI Operating

BEFORE TAKEOFF CHECKLIST

- Parking Brake Set
- Doors and Windows Closed & Locked
- Flight Instruments Set & Checked
- Flight Controls Free & Correct
- Fuel Selector Both
- Elevator and Rudder Trim Set
- Mixture Rich
- Throttle 1700 RPM
 - Magnetos Check (125 RPM Max Drop)
 - Ammeter Check
 - Engine Instruments Check
 - Suction Gauge Check
 - Carburetor Heat Check for RPM Drop
 - Throttle 1000 RPM
- Radios Set
- Throttle Friction Lock Adjust
- Parking Brakes Release

-----CLEARED FOR TAKEOFF-----

- Departure Time Record
- Instruments Check
- Transponder ALT
- Landing Light On
- Strobe Lights On

NORMAL TAKEOFF

- Wing Flaps Up
- Carburetor Heat Cold
- Throttle Full
- Elevator Control Lift nose wheel at 55 KIAS
- Climb Speed 70-80 KIAS

SHORT FIELD TAKEOFF

- Wing Flaps Up
- Carburetor Heat Cold
- Brakes Apply
- Throttle Full
- Brakes Release
- Elevator Control Slightly Tail Low
- Climb Speed 59 KIAS until obstacles cleared

AFTER TAKEOFF CHECKLIST

- Oil Pressure Check
- Flaps Retract
- Aircraft Lighting As Required

ENROUTE CLIMB

- Airspeed 70-85 KIAS
- Throttle Full
- Mixture Rich (Lean above 3000' MSL)

CRUISE

- Power Set per AFM
- Elevator Trim Adjust
- Mixture Lean above 3000' MSL
- Landing Light Off

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DESCENT CHECKLIST

- Seats & Belts Secure
- Fuel Selector Both
- Mixture Enrich
- Engine Instruments Check
- Avionics Set
- Aircraft Lights As Required
- Pitot Heat As Required

BEFORE LANDING CHECKLIST

- GUMPS check Complete
- Fuel Selector Both
- Landing Light On
- Seat Belts / Harnesses On
- Flaps As Required
- Mixture Rich (Below 3000' MSL)
- Carburetor Heat As Required
- Normal Approach 60-70 KIAS
- Short / Soft Field Approach 55 KIAS

GO AROUND

- Power Full Throttle
- Wing Flaps 10 Degrees
- Wing Flaps Up
- ATC Advise

AFTER LANDING CHECKLIST

- Exterior Lights As Required
- Pitot Heat Off
- Carburetor Heat Off
- Mixture Lean for taxi
- Wing Flaps Up
- Transponder STBY
- Elevator Trim Takeoff

PARKING CHECKLIST

- Avionics Master Off
- Panel Lights Off
- Mixture Idle Cutoff
- Master Switch Off
- Magneto Switch Off
- Cabin Air Closed
- Hobbs / Tach Time Record

SECURING AIRCRAFT CHECKLIST

- Master Switch Off
- Seat Belts Straightened
- Garbage Removed from cabin
- Wing Flaps Up
- Air Inlet Closed on both sides
- Control Lock Installed
- Cabin Door Locked
- Cargo Door Locked
- Aircraft Covers & Intake Covers Installed
- Tiedowns Secured

180hp CESSNA 172N EMERGENCY CHECKLIST

*FLY THE AIRPLANE – SILENCE THE WARNING –
CONFIRM THE EMERGENCY*

ENGINE FAILURE DURING TAKEOFF

- Throttle Idle
- Brakes Apply
- Wing Flaps Retract
- Mixture Idle Cutoff
- Ignition Switch Off
- ATC Advise

ENGINE FAILURE AFTER TAKEOFF

- Airspeed 65 (Flaps Up)
..... 60 (Flaps Down)
- Mixture Idle Cutoff
- Fuel Selector Valve Off
- Ignition Switch Off
- Wing Flaps As Required
- ATC Advise
- Master Switch Off

ENGINE FAILURE IN FLIGHT

- Airspeed 65 KTS
- Carburetor Heat On
- Fuel Selector Valve Both
- Mixture Rich
- Ignition Switch BOTH (or START)
- Primer In and Locked
- ATC Advise
- Transponder 7700
- Landing Site Determine

LANDING WITHOUT ENGINE

- Airspeed 65 KIAS (Flaps Up)
..... 60 KIAS (Flaps Down)
 - Mixture Idle Cutoff
 - Fuel Selector Valve Off
 - Ignition Switch Off
 - Wing Flaps As Required
- Below 500 Feet:**
- Master Switch Off
 - Doors Unlatch
 - Touchdown Slightly Tail Low

FLIGHT INTO ICING CONDITIONS

- Pitot Heat On
- Alternate Static Air On
- Cabin Heat Off
- Direction and / or Altitude Change
- ATC Advise

ENGINE FIRE

On Ground:

- Cranking Continue

If Engine Starts:

- Power 1700 RPM
- Engine Shutdown & Inspect

If engine fails to start:

- Throttle Full Open
- Mixture Idle Cut-Off
- Cranking Continue 2 or 3 minutes
- Fire Extinguisher Obtain
- Engine Secure
 - Master Switch Off
 - Ignition Switch Off
 - Fuel Shutoff Valve Off

In Flight :

- ATC Advise
- Mixture Idle Cutoff
- Fuel Selector Valve Off
- Master Switch Off
- Cabin Heat and Air Off
- Airspeed 100 KIAS
- Accomplish LANDING WITHOUT ENGINE LIST

ELECTRICAL FIRE

- Master Switch Off
- All Individual Electric Switches Off
- Vents / Cabin Air / Heat Closed
- Fire Extinguisher Activate

If fire appears out and electrics needed:

- Master Switch On
- Circuit Breakers Check
- Electrical Switches On 1 at a time
- ATC Advise

ALTERNATOR-LOW VOLTAGE

- Alternator Off
- Non-essential Electrical Equipment Off
- LAND AT NEAREST SUITABLE AIRPORT

ALTERNATOR-HIGH VOLTAGE

- Master Switch Off (Both Sides)
- Master Switch On
- Over-Voltage Light Off

If over-voltage light illuminates again:

- LAND AT NEAREST SUITABLE AIRPORT