

Cessna 172N CHECKLIST

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PREFLIGHT - CABIN

Dispatch Sheet	COMPLETE
WX / Weight / Performance	CHECK
ARROW Documents	CHECK
Control Lock	REMOVE
Parking Brake	SET
Ignition	OFF
Master Switch	OFF
Primer	LOCKED
Master/Lights	OFF
Throttle / Mixture	IDLE / CUTOFF
Carb Heat	OFF
Circuit Breakers	IN
Fuel Selector	BOTH
Master Switch	ON
Fuel Quantity	CHECK
Flaps	LOWER
External Lights	CHECK
Master Switch	OFF
Key	ON DASH
Baggage Area	SECURE

PREFLIGHT - EXTERIOR (start @ left side cockpit)

L Fuel Sump	CHECK
Strut / Tire / Brakes	INSPECT
Flap	INSPECT
Aileron	INSPECT
Wingtip / Wing area	INSPECT
Leading Edge	INSPECT
Fuel Vent	CLEAR
Pitot Tube	REMOVE COVER / INSPECT
Cabin Vent	CLEAR
Fuel Quantity	CHECK - DIP TANKS
Static Port	CLEAR
Windshield	CHECK / CLEAN
Cowling	INSPECT
Nose Wheel / Strut / Steering Rods	CHECK / INSPECT
Cowl Openings	CLEAR
Propeller / Nose Cone	INSPECT
Alternator Belt	INSPECT
Air Box Filter	CLEAR
Engine Fuel Sump	DRAIN
Oil	CHECK: 5-6 qts
Engine Compartment	INSPECT
Right Wing / Fuel	REPEAT ABOVE, DIP TANK
Right Strut / Tire / Brakes	INSPECT
R Fuel Sump	CHECK
Fuselage	INSPECT
Horizontal Stab / Elevator (R & L)	INSPECT
Rudder / Vertical Stab	INSPECT
Antennas (Comm / Nav / ELT)	INSPECT
Fuselage	INSPECT
Rear Windows	CHECK / CLEAN

BEFORE ENGINE START

Pax / Pilot Safety Briefing	COMPLETE
Seat Belts	ON
Parking Brake	ON
Fuel Selector	BOTH
Key	IN IGNITION

ENGINE START

Master Switch	ON
Anti-Collision Light	ON
Carb Heat	COLD
Mixture	FULL RICH
Throttle	1/8" OPEN
Prime	2-6 SHOTS
Brakes	HOLD
Area	CLEAR
Ignition	START

AFTER START

Throttle	1,000-1100 RPM
Oil Pressure	CHECK
Avionics	ON
Fuel Pressure	CHECK
Mixture	RICH BELOW 5000' D.A.
Nav Light	AS REQ'D
Transponder	1200 / VFR - STBY
ATIS	LISTEN / RECORD
Flight Instruments	SET

TAXI

Parking Brake	RELEASE
Brakes	CHECK
Instruments	CHECK
Flight Controls	FREE & CLEAR

ENGINE RUNUP

Parking Brake	SET
Mixture	RICH
Throttle	1700 RPM
Engine Gauges	GREEN
Magnetos	MAX 125 DROP / 50 DIF
Carb Heat	CHECK
Vacuum	CHECK
Mixture	LEAN, BEST POWER (Above 5000' D.A.)
Throttle	IDLE CHECK
Throttle	1000 RPM
Throttle Friction Lock	ADJUST
Voltmeter / Ammeter	CHECK

BEFORE TAKEOFF

DOOR / SEATBELTS	CLOSED / FASTENED
Trim	SET
Flaps	AS REQ'D
Mixture	AS REQ'D
Landing Light	AS REQ'D
Transponder	ALT
Tower / Unicom	CALL

AFTER TAKEOFF - 1000 AGL

Airspeed	70-85 KIAS
Fuel Pressure	CHECK
Landing Light	AS REQ'D

CRUISE

Throttle	2200-2600 RPM
Mixture	LEAN ABOVE 5000' D.A.
Engine / Vacuum / Voltmeter	CHECK
Directional Gyro	SET

DESCENT / APPROACH

Mixture	ENRICH AS REQ'D
ATIS / WX	RECORD
Flight Instruments	SET
Carb Heat	AS REQ'D

BEFORE LANDING

Landing Light	AS REQ'D
Mixture	RICH
Carb Heat	ON
Fuel Selector	BOTH
Seat Belts	FASTENED
ATC / Radios	CLEARANCE / ANNOUNCE

AFTER LANDING - CLEAR RUNWAY

Trim	RESET
Flaps	SET / RETRACT
Mixture	LEAN FOR TAXI
Carb Heat	OFF
Landing / Taxi Light	AS REQ'D
Comm	GROUND / Unicom
Taxi Clearance	REQUEST

SHUTDOWN / SECURE

Brakes	HOLD
Radios / Intercom / Avionics	OFF
Throttle	1100 RPM
Mag Grounding Check	CHECK
Mixture	CUTOFF
Anti Collision / Lights	OFF
Master Switch	OFF
Ignition	OFF / KEY ON DASH
Dispatch Sheet	COMPLETE
Control Lock	SET
Tie Down / Chocks / Windows	SECURE / CLOSED

ENGINE FIRE DURING START

Starter	CRANK
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IF ENGINE STARTS:

Throttle	1700 RPM FOR SEVERAL MIN
Engine	SHUTDOWN

IF ENGINE DOESN'T START:

Throttle	FULL OPEN
Mixture	IDLE CUT-OFF
Cranking	CONTINUE
Fire Extinguisher	OBTAIN
Engine	SECURE

ELECTRICAL FIRE

All Electrical Equipment	OFF
Vents / Windows	OPEN
Cabin Heat / Defrost	OFF

LAND AS SOON AS PRACTICAL**ENGINE FIRE IN FLIGHT**

Fuel Selector	OFF
Throttle	CLOSED
Mixture	CUTOFF
Cabin Heat/Air	OFF
Airspeed	100 KIAS

PROCEED WITH EMERGENCY DESCENT / LANDING**ENGINE FAILURE IN FLIGHT**

A.B.C.	
Airspeed	65 KIAS
Best Field	CHOOSE SUITABLE LANDING SPOT
Carb Heat	ON
Mixture	RICH
Fuel Selector	BOTH
Primer	LOCKED
Engine Gauges	CHECK
Magnetos / Ignition	CHECK / START

POWER RESTORED

Land at nearest suitable airport

POWER NOT RESTORED

Declare Emergency	DONE
Squawk	7700
Engine / Aircraft Secure	COMPLETE

ENGINE SECURE - AIRCRAFT SECURE

Fuel Selector	OFF
Ignition	OFF
Throttle	CLOSED
Mixture	CUTOFF
Electrical Equipment	OFF
ELT	ACTIVATE
Seat Belts / Harnesses	TIGHT
Door	OPEN
Flaps	FULL WHEN LANDING ASSURED

SOFT FIELD TECHNIQUE, PAX BRACE FOR IMPACT

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LOSS OF FUEL PRESSURE

Fuel Selector	ON
Mixture	ENRICH

PROCEED WITH CAUTION, LAND IF NECESSARY

ENGINE ROUGHNESS

Carb Heat	ON
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If roughness continues:

Mixture	ADJUST FOR MAX SMOOTH
Fuel Selector	ON
Engine Gauges	CHECK
Magnetos	L, R, BOTH - CHECK

If operation satisfactory on either one, continue on that magneto at reduced power & mixture full rich. Land at nearest practical airport.

ELECTRICAL FAILURE

Voltmeter	VERIFY DISCHARGING
Electrical Load	REDUCE
ALT Switch	OFF
ALT CB	CHECK & RESET UP TO 1X
ALT Switch	ON

if power not restored:

ALT Switch	OFF
Electrical Load	MINIMUM

LAND AT NEAREST PRACTICAL AIRPORT

ELECTRICAL OVERLOAD

(Voltmeter > 15 volts)

Electrical Load	REDUCE
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If no change in Voltmeter:

ALT Switch	OFF
Electrical Load	MINIMUM

LAND AT NEAREST PRACTICAL AIRPORT

OPEN DOOR

Airspeed	70 kts or LESS
Cabin Vents	CLOSED
Storm Window	OPEN
Door	PULL SHUT + LATCH

Vg (glide) 65	
Vso 41	CRZ Climb 70
Vs1 47	Vfe 10 110
Vr 55	Vfe 20-40 85
Va 80-97	Vno 128
Vx 59	Vne 160
Vy 73	

NORMAL TRAFFIC PATTERN

Downwind

Throttle	2000 RPM
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Abeam Touchdown Point

Throttle	1700 RPM
Carb Heat	ON
Flaps	10 DEGREES
Airspeed	80 Kts

Base Leg

Touchdown point	45 degrees behind, TURN
Flaps	20 DEGREES
Airspeed	70 Kts
Altitude	JUDGE - HIGH/LOW

Final Leg

Flaps	30+ DEGREES
Airspeed	60 Kts
Aimpoint	ESTABLISHED

TOUCH N GO

Flaps	RETRACT
Carb Heat	OFF
Throttle	SMOOTH FULL OPEN
Centerline	TRACK
Airspeed	55kts, ROTATE

RADIO CALLS

Towered Airport:

WHO	Henderson Tower, Cessna 734BF
WHERE	Over Ruins, 4,000
WEATHER	ATIS Kilo
WHAT	Inbound, Full Stop

Non-Towered

WHO	Jean Traffic, Cessna 734BF
WHERE	6 miles to the Southwest, 5,000
WHAT	Right downwind entry runway 20R, touch n go
WHO	Jean

FREQUENCIES

KHND

ATIS	120.775
GROUND	127.8
TOWER / CTAF	125.1

OLZ

CTAF	122.9
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BVU

AWOS	118.475
CTAF	122.7

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AIRPORT TRAFFIC LIGHT SIGNALS

SIGNAL	ON GROUND	IN FLIGHT
STEADY GREEN	CLEARED FOR TAKE-OFF	CLEARED TO LAND
FLASHING GREEN	CLEARED TO TAXI	RETURN FOR LANDING
STEADY RED	STOP	GIVE WAY AND CONTINUE CIRCLING
FLASHING RED	TAXI CLEAR OF LANDING AREA	AIRPORT UNSAFE DO NOT LAND
FLASHING WHITE	RETURN TO STARTING POINT	—————
ALTERNATING RED AND GREEN	GENERAL WARNING SIGNAL – EXERCISE EXTREME CAUTION	

FLIGHT PLAN SEQUENCE

- TYPE FLIGHT PLAN
- "N" NUMBER
- TYPE AND EQUIPMENT
- TRUE AIR SPEED
- DEPARTURE POINT
- DEPARTURE TIME
- ALTITUDE
- ROUTE
- DESTINATION
- TIME ENROUTE
- REMARKS
- FUEL
- ALTERNATE
- NAME / HOME BASE
- PEOPLE ON BOARD
- COLOR OF AIRCRAFT

TRANSPONDER CODES

- 1200- VFR
- 7500- HIJACK
- 7600- LOST COMM.
- 7700- EMERGENCY

POSITION REPORT FORMAT

- IDENTIFICATION
- POSITION
- TIME
- ALTITUDE
- ETA NEXT FIX
- FOLLOWING FIX

SPECIAL EQUIPMENT SUFFIXES

- /X** – NO TRANSPONDER
- /T** – TRANSPONDER WITHOUT ALTITUDE ENCODING
- /U** – TRANSPONDER WITH ALTITUDE ENCODING
- /D** – DME, NO TRANSPONDER
- /B** – DME, TRANSPONDER WITHOUT ALTITUDE ENCODING
- /A** – DME, TRANSPONDER WITH ALTITUDE ENCODING
- /Y** – RNAV, NO TRANSPONDER
- /C** – RNAV, TRANSPONDER WITHOUT ALTITUDE ENCODING
- /I** – RNAV, TRANSPONDER WITH ALTITUDE ENCODING
- /G** – GPS/GNSS WITH APPROACH CAPABILITY