

C172 Checklist N3803S



PREFLIGHT	
Weather	Density Altitude
Weight & Balance	Flight Plan
Frequencies & Phone #s	
Papers: AROW (Airworthiness, Registration, Op. Limits, Weight and Balance, Pilot Cert, Current Medical)	
EXTERIOR	
Cockpit:	
Ignition	OFF, Key Removed
Master Switch	ON
Hobbs/Tach	Record
Electrical Switches <small>(Anti-Collision, Nav and Landing Lights)</small>	ON
Flaps	Extended
Walk around and check lights	
Electrical Switches <small>(Anti-Collision, Nav and Landing Lights)</small>	OFF
Master	OFF
Walk around:	
Baggage Door	Check function, closed, locked
EMPENNAGE:	
Horizontal Stabilizer and Elevator	CHECK
Vertical Stabilizer and Rudder	CHECK
Trim Tab	CHECK
Tail Tie Down	Remove
RIGHT WING:	
Flaps and Ailerons	CHECK
Wing Tip	CHECK
Wing Tie-down	DISCONNECT
Fuel Quantity	CHECK VISUALLY
Fuel Tank Sump	CHECK
Main Landing Gear (Tire 23 psi)	CHECK
Air Inlets	CHECK
NOSE:	
Engine Oil Level	Oil 5-7 qts **>6qts for XC flights**
Carburetor Air Inlet	CHECK
Propeller and Spinner	CHECK

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Vacuum Pump Belt	CHECK
Nose Landing Gear (Tire 26 psi)	CHECK
Fuel Strainer	CHECK
LEFT WING:	
Air Inlets	CHECK
Fuel Tank Sump	CHECK
Main Landing Gear (Tire 23 psi)	CHECK
Fuel Tank Vent	CHECK
Stall Warning	CHECK
Wing Tie-down	DISCONNECT
Fuel Quantity	CHECK
Wing Tip	CHECK
Aileron and Flaps	CHECK

BEFORE STARTING ENGINE	
Brakes	Set
Passenger Brief	Complete (SAFETY)
Seat Tracks	Secure
Belts/Harness	Secure
Loose Items	Secure

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ENGINE START	
Master Switch	ON
Fuel Selector Valve	BOTH
Flaps	RETRACTED
Mixture	Rich
Throttle	Closed
Carb Heat	OFF
Anti-Collision Lights	ON
Circuit Breakers	CHECK IN
Avionics (2nd radio and XPDR)	OFF
Primer	Cycle 3x for cold start
Throttle	1/8 inch open
Prop Area	CLEAR PROP
Ignition Switch	BOTH
Starter	Engage
Throttle	Adjust to 800-1000 RPM, lean for taxi
Oil Pressure	Check GREEN
Ammeter	Check
2nd radio and XPDR	ON and VFR

PRE-RUN UP	
Avionics/Radios	On/Set Frequencies
Transponder	ALT
ATIS/AWOS	Listen/Notes
Altimeter	Set
Test and Set:	Brakes, Compass, Altitude, Heading and Turn Indicators, and Inclinometer
Landing/Taxi Lights	As Required
Taxi Area	Clear

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RUN-UP	
Brakes	Set and Hold
Cabin Doors	Closed and Latched
Flight Controls	Free and Correct
Fuel Selector Valve	BOTH, Quantity OK
Elevator Trim	Set for Take Off
Mixture	Rich or as appropriate
Primer	In and Locked
Throttle	1700 RPM
Check:	MAGS – R, B, L, B (Up to 150 RPM drop in either or 75 RPM differential) CARB HEAT Amps/Volts – In Green Oil Pressure and Temp – In GREEN
Throttle	800-1000 RPM
Flight Plan	Set

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BEFORE TAKE OFF	
Radio Frequency	CHECK
Fuel Selector Valve	BOTH
Mixture	Full Rich
Lights	As required
Take Off and Abort Plan	Complete
Traffic	Check

FLIGHT	
NORMAL TAKE OFF	
Flaps and Trim	0° - 10° and take off
Elevator Normal Climb Out Vy	Rotate at 60 MPH 80 MPH
Flaps	Retract slowly at safe altitude

SHORT FIELD TAKE OFF	
Flaps	0°
Elevator Initial Climb Speed Vx Climb Speed Vy	Rotate at 60 MPH 65 MPH until clear 50' obstacle 80 MPH
Flaps	Retract slowly at safe altitude

SOFT FIELD TAKE OFF	
Flaps	10°
Elevator Initial Climb Speed Vx Climb Speed Vy	Rotate at a controllable airspeed 65 MPH until clear 50' obstacle 80 MPH
Flaps	Retract slowly at safe altitude

CLIMB	
Airspeed	80-90 MPH
Throttle	Full Open
Mixture	Rich
Engine Instruments	Check
Landing/Taxi Lights	As required

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CRUISE	
Throttle	As needed (2400-2500RPM)
Mixture	Lean
Elevator Trim	Adjust as needed
Engine and Flight Instruments Fuel Selector Valve	Check If Cruise Alt >5000MSL "Left or Right"
Heading Indicator	Adjust to Compass

DESCENT	
Mixture	Adjust as needed
CARB Heat	As Required
ATIS/AWOS	Listen
Altimeter	Set
Landing/Taxi Lights	As Required

LANDING CHECKLIST	
Fuel Selector Valve	BOTH
Flaps	As needed
Mixture	RICH
CARB Heat	ON
Oil	Pressure and Temp OK
Hatches and Harnesses	Secure and Tightened
Landing/Taxi Lights	ON

LANDING	
Extend Flaps	As Required
Normal	70 MPH
Short Field	65 MPH
Soft Field	65 MPH
Brakes	As Required

GO AROUND	
Throttle	Full OPEN
CARB Heat	OFF
Airspeed	65 MPH
Flaps	Retract Slowly

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AFTER LANDING	
Radio Frequency	CHECK
Flaps	RETRACTED
CARB Heat	OFF
Mixture	Lean for taxi
Landing/Taxi Lights	As Required
Trim	Set for Take Off

SHUT DOWN	
Hobbs/Tach	Record
Avionics/Electrical Switches	OFF
Mixture	Idle Cut Off
Master Switch	OFF
Ignition Switch	OFF, Key Out
Fuel Selector Valve	RIGHT tank
Secure	Chocks/Tie Downs Hangar Door Closed and Locked

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EMERGENCY PROCEDURES	
Best Glide 65 MPH	Radios 121.5 Squawk 7700
ENGINE FAILURE DURING FLIGHT (Restart Procedures)	
Airspeed Vg	65 MPH
Fuel Selector Valve	BOTH or Fullest Tank
Mixture	RICH
Carb Heat	ON
Ignition	BOTH (or START if prop is stopped)
Starter	Engage if prop is stopped
Primer	IN and LOCKED

EMERGENCY LANDING WITHOUT ENGINE POWER	
Airspeed Vg	65 MPH (Flaps Up)
Fuel Selector Valve	OFF
Mixture	IDLE Cut-Off
Carb Heat	OFF
Ignition	OFF, key out
Once Landing Assured	
Flaps	As Required
Master Switch	OFF
Doors	Unlatched

ENGINE FIRE DURING START	
Starter	Keep Cranking
Mixture	IDLE CUT-OFF
Throttle	FULL OPEN
Fuel Selector	OFF

FIRE DURING FLIGHT	
Electrical (Smoke in Cabin)	
Master Switch	OFF
Vents	OPEN
Cabin Heat	OFF
Engine Fire	
Fuel Selector	OFF
Mixture	IDLE CUT-OFF
Throttle	CLOSED
Emergency Descent	Airspeed 100+ MPH UNTIL FIRE IS OUT
DO NOT ATTEMPT RESTART	

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