Cessna 172 SkyhawkChecklist

Cessna 172 SkyhawkChecklist	STARTING ENGINE
PREFLIGHT INSPECTION	MixtureRICH Carburetor HeatCOLD
PREFLIGHT INSPECTION	Prime(2-6 strokes) AS REQUIRED
CABIN .	PrimerIN & LOCKED
Certificates/DocumentsIN AIRCRAFT	ThrottleOPEN 1/8 inch
Airworthiness Certificate	Master SwitchOPEN 1/8 ITEM
	Master SwitchON
Registration (c	Anti-collision / Strobe LightsCHECK OPERATION
Radio Operators/Station License	Propeller AreaCLEAR
Operating Limitations / Airplane Flight Manual	Ignition SwitchSTART
Weight & Balance (current)	Oil PressureCHECK
	Engine Warm-upTHROTTLE 800-1200 RPM
Parking BrakeSET Control Wheel	Fuel PumpOFF
LockREMOVE	MixtureLEAN FOR TAXI
Ignition SwitchOFF	PHACE I
Master SwitchON	
Fuel Quantity IndicatorsCHECK QUANTITY	
Anti-collision / Strobe LightsCHECK OPERATION	BEFORE TAXI
FlapsINSPECT	Lights & StrobesAS REQUIRED
Lights CUECK	RadiosON-SET
LightsCHECK	
Master SwitchOFF	TransponderSTANDBY
Fuel SelectorBOTH	FlapsUP
Baggage DoorCHECK SECURE	Seats, Belts, HarnessesCHECK SECURE
	BrakesTEST
TAIL SECTION	
Tail Tie-Down / Rudder Gust LockREMOVE	BEFORE TAKEOFF
Elevator & RudderCHECK FREEDOM & SECURE	
Nav. LightsUNBROKEN (WHITE)	Parking BrakeSET
= ' '	Seats, Belts, HarnessesCHECK SECURE
RIGHT WING	Cabin Doors & WindowsCLOSED & LOCKED
	Flight ControlsFREE & CORRECT
Flap Tracks & Actuator RodCHECK	Fuel SelectorBOTH
AileronCHECK FREEDOM & SECURE	Elevator TrimSET for takeoff
Nav.LightUNBROKEN (GREEN)	Fuel QuantityCHECK
Fuel QuantityCHECK VISUALLY	
	MixtureRICH
Fuel Filler CapSECURE	Throttle1700 RPM
Wing Tie-downREMOVE	MagnetosCHECK
Fuel Tank Sump Quick-Drain ValveDRAIN	(125 max drop / 50 max diff.)
Main Wheel TireCHECK WEAR & INFLATION (29 psi)	
	Carburetor HeatCHECK
NOSE	Suction GageCHECK (4.6 to 5.4)
	Engine Instruments & AmmeterCHECK
WindshieldCHECK CLEAN Wheel	ThrottleCHECK IDLE LIMITS (650 RPM)
ChocksREMOVE	
Engine Oil DipstickCHECK (6-8 gt.)	If holding for Takeoff IDLE at 1200 RPM
Engine Fuel StrainerDRAIN 4 SECONDS	Throttle Friction LockADJUST
Nose WheelCHECK WEAR & INFLATION (31 psi)	Flight Instruments
Shock StrutCHECK PROPER INFLATION (45 psi)	Flight InstrumentsCHECK & SET
` ' '	RadiosSET
Approx. 3.25 inches showing	TransponderALTITUDE
AT A LANGUE OF FOREIGN MATTER	Wing Flaps SET for takeoff
Air InletsCHECK FREE OF FOREIGN MATTER	LightsAS DESIRED
Landing LightCHECK	BrakesRELEASE
Air FilterCHECK	BrakesREEEASE
Propeller & SpinnerCHECK	*** (Note time of departure for fuel purposes.)
Tow BarREMOVE	<u>(Note time of departure for ider purposes.)</u>
Static PortCHECK	
	TAVEOUE
	TAKEOFF
LEFT WING	
Main Wheel TireCHECK WEAR & INFLATION (29 psi)	NORMAL TAKEOFF
	Wing Flaps0 Degrees
Fuel Tank Sump Quick-Drain ValveDRAIN	Carburetor HeatCOLD
Wing Tie-downREMOVE	Throttle
Fuel QuantityCHECK VISUALLY	ThrottleFULL OPEN Elevator
Fuel Filler CapSECURE	ControlLIFT NOSE WHEEL (60 MPH) Climb
Pitot Tube / CoverCHECK / REMOVE	Speed75- 85 MPH
Fuel Tank Vent OpeningCHECK / REMOVE	
	ENROUTE CLIMB
Stall Warning VentCHECK	Airspeed80-90 MPH
Nav. LightUNBROKEN (RED)	ThrottleFULL OPEN
AileronCHECK FREEDOM & SECURE	Minture DIGIT (martil 7000 ft. 1)
Flap Tracks & Actuator RodCHECK	MixtureRICH (until 3000 feet)
	CRUSE
BEFORE STARTING ENGINE	Power2200 – 2700 RPM
ChocksREMOVE	ElevatorADJUST
Preflight InspectionCOMPLETE	MixtureLEAN for max rpm
Passenger BriefingCOMPLETE	DECCENT
Seats, Seat Belts, HarnessADJUST & LOCK	DESCENT
BrakesTEST & SET	Fuel SelectorBOTH

BrakesTEST & SET
Circuit BreakersCHECK IN
Radios & Electrical Equipment....OFF

Fuel Selector.....BOTH

Tow Bar.....REMOVE

Carburetor HeatAS REQUIRED

Cessna 172 SkyhawkChecklist BEFORE LANDING

Seats, Belts, Harnesses	SECURE
Fuel Selector	
Mixture	RICH
Carburetor Heat	APPLY FULL HEAT
Wing Flaps	AS DESIRED
Airspeed70-80 MPH(flai	ps up), 65-75 MPH(flaps down)

BALKED LANDING (Go-Around)

Power	FULL THROTTLE
Carburetor Heat	COLD
Wing Flaps	RETRACT to 20° POS. RATE

LANDING

NORMAL LANDING

70-80 MPH (flaps up)
AS DESIRED (below 100 MPH)
65-75 MPH (flaps down)
MAINS FIRST
LOWER NOSE WHEEL GENTLY
MINIMUM REQUIRED

AFTER LANDING

Wing Flaps	UP
Carburetor Heat	COLD
Transponder	STANDBY
Lights	

^{*** (}Note time of landing to compare against the Hobbs.)

SHUTDOWN

Parking Brake	SET
Radios & Electrical Equipme	nt & LightsOFF
Throttle	
Mixture	IDLE CUT-OFF
Ignition Switch	OFF
Master	OFF
Control Lock	INSTALL
Hobbs & Tach	RECORD
Aircraft	SECURE

USEFUL INFORMATION

Aircraft V-Speeds:

Vr:	(Rotation Speed)	60 MPH
Vx:	(Best angle of climb)	68 MPH
Vy:	(Best rate of climb)	91 MPH
Va:	(Maneuvering Speed)	112 MPH
Vfe:	(Max flap extended speed)	100 MPH
Vno:	(Max structural cruising speed)	145 MPH
Vne:	(Never exceed speed)	182 MPH
Vs1:	(Stall Speed (clean))	57 MPH
Vso:	(Stall Speed (dirty))	49 MPH
Glide:	(clean)	80 MPH

Note: All Speeds are for Gross Weight (2300 lbs) aircraft.

Weight & Balance:

Max Gross Weight:	2300.00 lbs
Basic Empty Weight:	1430.6 lbs.
Useful Load:	869.6 lbs.
Payload:	641.6 lbs.
Moment:	55535.892
Center of Gravity:	38.82 in.

Standard Fuel Loading:

42 Gallon Capacity	252 lbs
38 Gallons Usable	228 lbs
4 Gallons Unusable Fuel	24 lbs

EMERGENCY PROCEDURES

ENGINE FIRE DURING START (results from over priming)

StarterCONTINU	TE TO CRANK ENGINE
Throttle1700	
	ul, continue cranking for 2 or 3
minutes with throttle full op	en.
Mixture	IDLE CUT-OFF
Fuel Selector	OFF
Aircraft ABANDO	N IF FIRE CONTINUES

Smother flames with fire extinguisher, seat cushion, blanket, or loose dirt. If practical, remove carburetor air filter if it's ablaze.

Make a thorough inspection of fire damage, and repair or replace

Make a thorough inspection of fire damage, and repair or replace damaged components before conducting flight.

ENGINE POWER LOSS DURING TAKE-OFF (Instructor Technique)

If sufficient runway remains for a normal landing land straight ahead.

If insufficient runway remains, maintain a safe airspeed and make only shallow turns to avoid obstructions.

If you have gained sufficient altitude to attempt a restart, proceed with next checklist.

ENGINE FAILURE DURING FLIGHT (restart) (Instructor Technique)

Airspeed	80 MPH
Fuel Selector	SWITCH TANKS*
Mixture	RICH
Carburetor Heat	ON
Engine Gauges	CHECK FOR CAUSE
Primer	IN & LOCKED
Ignition Switch	
Transponder	7700
Radio	

* If engine failure was caused by fuel exhaustion, power will not b regained after tanks are switched until empty fuel lines are filled, wh may require up to ten seconds.

** When calling on 121.5 say your last known position number of people on board, how much fuel, and what kind of emergency. It i recorded and they will be able to find you and take care of you faster

EMERGENCY LANDING WITHOUT ENGINE POWER

Airspeed80 MPH

Mixture	CUT—OFF
Fuel Selector	OFF
Ignition Switch	OFF
Seat belt and harness	
FlapsAS REQUIRED WITH	IN GLIDING DIST OF FIELD
/	
(Full Flaps Down)	65-75 MPH
(Full Flaps Down) Master Switch	
Master SwitchUNLACH PR	OFF RIOR TO FINAL APPROACH
Master Switch	OFF RIOR TO FINAL APPROACH Y TAIL LOW(min. speed)

ELECTRICAL FIRE (smoke in cabin)

Master Switch		OFF	
All Electrical S	witches (excer	ot ignition)	OFF
Vents / Windo	ws	OPEN TO VENT	SMOKE
Cabin Heat		OFF	
Land as soon a	as Practical		

ENGINE FIRE IN FLIGHT

Mixture	CUT—OFF
Fuel Selector	OFF
Master Switch	OFF
Glide Establish	120 MPH
Cabin Heat	OFF / CLOSED

If fire is not extinguished, increase glide speed in an attempt to fi an airspeed that will provide incombustible mixture.

Magneto SwitchOFF

Proceed with EMERGENCY LANDING w/o POWER procedure.

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