## Cessna 172 Quick Reference Checklist For simulation use only, not for real world flight

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PREFLIGHT	CLIMB
Ignition Switch OFF	Airspeed
Avionics Power Switch	Throttle
Master Switch	Mixture RICH (above 3000 feet, LEAN to obtain maximum RPM)
Fuel Quantity Indications	CRUISE
Master SwitchOFF	Power 2200-2700 RPM (no more than 75% is recommended)
Empennage Control Surfaces	Elevator and Rudder Trim
Ailerons	Mixture LEAN
BEFORE STARTING ENGINE	
Preflight Inspection	DESCENT  ADMIST Considerable of the second consi
Fuel Selector	Mixture ADJUST for smooth operation (full rich for idle power)
Avionics, Autopilot, Electrical	Power
Brakes	Carburetor Heat AS REQUIRED (to prevent carburetor icing)
Circuit Breakers	PRE-LANDING
STARTING ENGINE	Fuel Selector Valve
Mixture	Mixture
Carburetor Heat	Carburetor Heat ON (apply full heat before closing throttle)
Master SwitchON	Autopilot OFF
Prime	Air ConditionerOFF
Throttle	NORMAL LANDING
Propeller Area	Airspeed
Ignition Switch START	Wing Flaps AS DESIRED (below 85 KIAS)
Oil Pressure	Airspeed
BEFORE TAKEOFF	Touchdown MAIN WHEELS FIRST
Parking Brake	Landing Roll LOWER NOSE WHEEL GENTLY
Flight Controls FREE and CORRECT	Braking MINIMUM REQUIRED
Flight Instruments	SHORT FIELD LANDING
Fuel Selector BOTH	Airspeed
Mixture	Wing Flaps FULL DOWN (40°)
Elevator Trim and Rudder TrimTAKEOFF	Airspeed
Throttle	Touchdown MAIN WHEELS FIRST
MagnetosCHECK (RPM drop should not exceed 125 RPM on	BrakingAPPLY HEAVILY
either magneto or 50 RPM differential between magnets).	Wing FlapsRETRACT
Carburetor Heat	BALKED LANDING
Engine Instruments and Ammeter	ThrottleFULL OPEN
Suction GageCHECK	Carburetor Heat
Avionics Power Switch	Wing Flaps
Radios	Climb Speed
Autopilot OFF	Wing Flaps10° (until all obstacles are cleared) RETRACT (after
Air ConditionerOFF	reaching a safe altitude and 60 KIAS)
Flashing Beacon, Navigation Lights, and/or Strobe Lights $\ldots$ ON as	AFTER LANDING
required	Wing Flaps
Brakes Release	Carburetor Heat
NORMAL TAKEOFF	SECURING AIRPLANE
Wing FlapsUP	Parking Brake SET
Carburetor Heat	Avionics Power Switch, Electrical Equipment, Autopilot OFF
ThrottleFULL OPEN	Mixture IDLE CUT-OFF (pulled full out)
Elevator Control LIFT NOSE WHEEL (at 55 KIAS)	Ignition Switch OFF
Climb Speed	Master SwitchOFF
SHORT FIELD TAKEOFF	
Wing FlapsUP	
Carburetor Heat	
Brakes	
ThrottleFULL OPEN	
Mixture RICH (above 3000 feet, LEAN to obtain maximum RPM)	
Brakes	

Elevator Control ...... SLIGHTLY TAIL LOW Climb Speed......59 KIAS (until all obstacles are cleared)

## Emergency Procedures Checklist For simulation use only, not for real world flight

ENCINE FAILURE DURING TAKEOFF	ENCINE FIRE IN FLICHT
ENGINE FAILURE DURING TAKEOFF Throttle	ENGINE FIRE IN FLIGHT  Mixture
Brakes	Fuel Selector Valve
Wing FlapsRETRACT	Master Switch OFF
Mixture	Cabin Heat and Air OFF (except overhead vents)
Ignition Switch	Airspeed . 100 KIAS (If fire is not extinguished, increase glide speed to
Master Switch OFF	find an airspeed which iwill provide an incombustible mixture)
ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF	Forced Landing EXECUTE (as described in Emergency Landing
Airspeed	Without Engine Power)
	ELECTRICAL FIRE IN FLIGHT
Mixture	Master SwitchOFF
Ignition Switch OFF	Avionics Power SwitchOFF
Wing Flaps AS REQUIRED	All Other Switches (except ignition switch) OFF
Master SwitchOFF	Vents/Cabin Air/HeatCLOSED
ENGINE FAILURE DURING FLIGHT	Fire Extinguisher
Wing Flaps20°	WARNING
Airspeed	After discharging an extinguisher within a closed cabin, ventilate the cabin.
flaps upon reaching a safe altitude and airspeed  Avionics Power Switch and Electrical Switches OFF	If fire appears out and electrical power is necessary for continuance of flight:
Wing Flaps	Master SwitchON
Airspeed	Circuit Breakers CHECK for faulty circuit, do not reset
Master Switch OFF	Radio Switches OFF
Touchdown SLIGHTLY TAIL LOW	Avionics Power SwitchON
Ignition Switch OFF	Radio/Electrical SwitchesON one at a time, with delay after each until
BrakesAPPLY HEAVILY	short circuit is localized
DITCHING	Vents/Cabin Air/Heat OPEN when it is ascertained that fire is
Radio TRANSMIT MAYDAY on 121.5 MHz, giving location and	completely extinguished
intentions	CABIN FIRE
Heavy Objects (in baggage area)SECURE OR JETTISON	Master SwitchOFF Vents/Cabin Air/HeatCLOSED (to avoid drafts)
Approach	Fire Extinguisher
Wing Flaps	After discharging an extinguisher within a closed cabin, ventilate the
Power ESTABLISH 300 FT/MIN DESCENT AT 55 KIAS. <b>NOTE</b> : If no power is available, approach at 65 KIAS with flaps up or	cabin.
at 60 KIAS with 10° flaps	Land the airplane as soon as possible to inspect for damage
TouchdownLEVEL ATTITUDE AT ESTABLISHED RATE OF	WING FIRE
DESCENT	Navigation Light Switch OFF
FIRE DURING START ON GROUND	Pitot Heat Switch OFF
CrankingCONTINUE, to get a start which would suck the flams and	Strobe Light Switch OFF
accumulated fuel through the carburetor and into the engine	NOTE: Perform a sideslip to keep the flames away from the fuel tank
If engine starts:	and cabin, and land as soon as possible using flaps only as required for final approach and touchdown
Power	
Engine SHUTDOWN and inspect for damage  If engine fails to start:	STATIC SOURCE BLOCKAGE Alternate Static Source Valve
Throttle	
Mixture	LANDING WITH A FLAT MAIN TIRE         Approach       NORMAL
CrankingCONTINUE	Touchdown GOOD TIRE FIRST, hold airplane off flat tire as long as
EngineSECURE	possible
Master SwitchOFF	OVER-VOLTAGE LIGHT ILLUMINATES
Ignition Switch OFF	Avionics Power Switch OFF
Fuel Selector Valve OFF	Master Switch OFF (both sides)
Fire EXTINGUISH using fire extinguisher	Master SwitchON
Fire Damage	Over-Voltage Light OFF
components or wiring before conducting another flight	Avionics Power Switch ON If over-voltage light illuminates again:
	Flight TERMINATE as soon as possible
	AMMETER SHOWS DISCHARGE
	AlternatorOFF
	Nonessential Radio/Electrical Equipment

Flight ...... TERMINATE as soon as practical

## Icing Checklist For simulation use only, not for real world flight

## INADVERTENT ICING ENCOUNTER

Turn pitot heat switch ON.

Turn back or change altitude to obtain an outside air temperature that is less conducive to icing.

Pull cabin heat control full out and open defroster outlet to obtain maximum windshield defroster heat and airflow.

Open the throttle to increase engine speed and minimize ice buildup on propeller blades.

Watch for signs of carburetor air filter ice and apply carburetor as required. An unexplained loss in engine speed could be caused by carburetor ice or air intake filter ice. Lean the mixture for maximum RPM, if carburetor heat is used continuously.

Plan a landing at the nearest airport. With an extremely rapid ice build-up, select a suitable "off airport" landing site.

With an ice accumulation of 1/4 ionch or more on the wing leading edges, be prepared for significantly higher stall speed.

Leave wing flaps retracted. With a severe ice build-up on the horizontal tail, the change in wing wake airflow direction caused by wing flap extension could result in a loss of elevator effectiveness.

Open left window and, if practical, scrape ice from a portion of the windshield for visibility in the landing approach.

Perform a landing approach using a forward slip, if necessary, for improved visibility.

Apprach at 65 to 75 KIAS depending upon the amount of the accumulation.

Perform a landing in level attitude.