PREFLIGHT INSPECTION

PREFLIGHT INSPECTION	STARTING ENGINE
CABIN	MixtureRIC
Certificates/DocumentsIN AIRCRAFT	Carburetor HeatCOL
Airworthiness Certificate	Prime(2-6 strokes) AS REQUIRE
Registration	PrimerIN & LOCKE
Radio Operators/Station License(International Flights Only)	ThrottleOPEN 1/8 inc
Operating Limitations / Airplane Flight Manual	Master SwitchO
Weight & Balance (current)	Anti-collision / Strobe LightsCHECK OPERATIC
Parking BrakeSET	Propeller Area
Control Wheel LockREMOVE	Ignition SwitchSTAF
Ignition SwitchOFF	Oil PressureCHEC
Master SwitchON	
Fuel Quantity IndicatorsCHECK QUANTITY	Engine Warm-upTHROTTLE 800-1200 RP
Anti-collision / Strobe LightsCHECK OPERATION	Fuel PumpOF
FlapsDOWN FOR INSPECTION	MixtureLEAN FOR TA
**For Night Operation: LightsCHECK	BEFORE TAXI
Master SwitchOFF	Lights & StrobesAS REQUIRE
Fuel SelectorBOTH	RadiosON-SE
Baggage Door	TransponderSTANDB
bayyaye DoorCheck Secore	FlapsU
TAIL SECTION	
Tail Tie-Down / Rudder Gust LockREMOVE	Seats, Belts, HarnessesCHECK SECUR
	BrakesTES
Elevator & RudderCHECK FREEDOM & SECURE	BEFORE TAKEOFF
Nav. LightsUNBROKEN (WHITE)	Parking BrakeSE
NCUTWING	Seats, Belts, HarnessesCHECK SECUR
RIGHT WING	Cabin Doors & WindowsCLOSED & LOCKE
Flap Tracks & Actuator RodCHECK	
AileronCHECK FREEDOM & SECURE	Flight ControlsFREE & CORREC
Nav.LightUNBROKEN (GREEN)	Fuel SelectorBOT
Fuel QuantityCHECK VISUALLY	Elevator TrimSET for taked
Fuel Filler CapSECURE	Fuel QuantityCHEC
Wing Tie-downREMOVE	MixtureRIC
Fuel Tank Sump Quick-Drain ValveDRAIN	Throttle1700 RF
Main Wheel TireCHECK WEAR & INFLATION (29 psi)	MagnetosCHEC
	(125 max drop / 50 max diff.)
NOSE	Carburetor HeatCHEC
WindshieldCHECK CLEAN	Suction GageCHECK (4.6 to 5.4
Wheel ChocksREMOVE	Engine Instruments & AmmeterCHEC
Engine Oil DipstickCHECK (6-8 qt.)	ThrottleCHECK IDLE LIMITS (650 RPM
Engine Fuel StrainerDRAIN 4 SECONDS	If holding for Takeoff IDLE at 1200 RPM
Nose WheelCHECK WEAR & INFLATION (31 psi)	Throttle Friction LockADJUS
	Flight Instruments
Shock Strut	Radios
Approx. 3.25 inches showing	
Air InletsCHECK FREE OF FOREIGN MATTER	Transponder
Landing LightCHECK	Wing Flaps SET for taked
Air FilterCHECK	LightsAS DESIRE
Propeller & SpinnerCHECK	BrakesRELEAS
Tow BarREMOVE	*** (Note time of departure for fuel purposes.)
Static PortCHECK	TAKE OFF
	TAKE OFF
LEFT WING	NORMAL TAKEOFF
Main Wheel TireCHECK WEAR & INFLATION (29 psi)	Wing Flaps0 Degre
Fuel Tank Sump Quick-Drain ValveDRAIN	Carburetor HeatCOL
Wing Tie-downREMOVE	Throttle
Fuel Quantity	Elevator ControlLIFT NOSE WHEEL (60 MP
Fuel Filler CapSECURE	
Pitot Tube / Cover	Climb Speed75- 85 MPF
Fuel Tank Vent Opening	ENROUTE CLIMB
Stall Warning VentCHECK	Airspeed80-90 MF
Nav. LightUNBROKEN (RED)	ThrottleFULL OPE
AileronCHECK FREEDOM & SECURE	MixtureRICH (until 3000 fee
Flap Tracks & Actuator RodCHECK	
	CRUSE
BEFORE STARTING ENGINE	Power2200 – 2700 RP
ChocksREMOVE	ElevatorADJUS
Preflight InspectionCOMPLETE	MixtureLEAN for max rp
Passenger BriefingCOMPLETE	mintal of max ip
Seats, Seat Belts, HarnessADJUST & LOCK	DESCENT
BrakesTEST & SET	
Circuit Breakers	Fuel SelectorBO
Cucini Breakers CHECK IN	MixtureRIC
Radios & Electrical EquipmentOFF	PowerAS DESIRE
	Carburetor HeatAS REQUIRE

Cessna 172 Skyhawk Checklist

BEFORE LANDING	
Seats, Belts, Harnesses	SECURE
Fuel Selector	BOTH
Mixture	RICH
Carburetor Heat	APPLY FULL HEAT
Wing Flaps	AS DESIRED
Airspeed70-80 MPH(flaps up)	, 65-75 MPH(flaps down)
BALKED LANDING (Go-Around)	

BALKED LANDING (Go-Around)

Power	FULL THROTTLE
Carburetor Heat	COLD
Wing Flaps	RETRACT to 20°
Upon reaching an airspeed of ap	proximately 65 MPH, retract
flaps slowly.	•

LANDING

IG	
l	70-80 MPH (flaps up)
npsAS	S DESIRED (below 100 MPH)
Í	65-75 MPH (flaps down)
wn	MAINS FIRST
RollLO\	WER NOSE WHEEL GENTLY
	MINIMUM REQUIRED
	l

AFTER LANDING

Wing Flaps	UP
Carburetor Heat	COLD
Transponder	STANDBY
Lights	AS REQUIRED

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

SHUTDOWN

Parking Brake	
Radios & Electrical Equipment & Lights	
Throttle	1000 RPM
Mixture	
Ignition Switch	OFF
Master	
Control Lock	INSTALL
Hobbs & Tach	
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)		
Starter	CONTINUTE TO CRANK ENGINE	
Throttle	1700 RPM (if engine starts)	
If engine start is unsuccessful, continue cranking for 2 or 3		
minutes with throttle full	open.	
Mixture	IDLE CUT-OFF	
Fuel Selector	OFF	
Aircraft	ABANDON 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 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	"L" then "R" back to BOTH
Transponder	
Radio	121.5 MAYDAY**

- * If engine failure was caused by fuel exhaustion, power will not be regained after tanks are switched until empty fuel lines are filled, which 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's recorded and they will be able to find you and take care of you faster

EMERGENCY LANDING WITHOUT ENGINE POWER

Airspeed	80 MPH
Mixture	CUT—OFF
Fuel Selector	OFF
Ignition Switch	OFF
Seat belt and harness	TIGHT
FlapsAS REQUIRED WITHIN GLIDING	DIST OF FIELD
(Full Flaps Down)	65-75 MPH
Master Switch	OFF
Cabin DoorsUNLACH PRIOR TO FIN	AL APPROACH
TouchdownSLIGHTLY TAIL LO	OW(min. speed)
Apply heavy braking while holding full up elev	ator.

ELECTRICAL FIRE (smoke in cabin)

Master Switch		OFF
All Electrical Switches (except igni	tion)	OFF
Vents / Windows	OPEN TO VENT	SMOKE
Cabin Heat		OFF
Land on soon on Drootical		

Land as soon as Practical

ENGINE FIRE IN FLIGHT

CUT—OFF
OFF
OFF
120 MPH
OFF / CLOSED

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

Magneto SwitchOF	F
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Proceed with ${\bf EMERGENCY\ LANDING\ w/o\ POWER\ }$ procedure.