

Cessna 172 Checklist

Pilot Rise, LLC

PRE-FLIGHT

Cabin

Documents (AROW)	CHECK
Control Lock	REMOVE
Ignition	OFF
Master	ON
Fuel	CHECK QTY
Flaps	DOWN
Lights	CHECK
Master	OFF
Fuel Selector	BOTH
Hobbs and Tach	PICTURE
FlightCircle	DISPATCH FLIGHT

Outside

Leading Edges	CHECK
Control Surfaces	CHECK
Wheels	CHECK
Fuel Quality	CHECK
Fuel QUANTITY	CHECK
Fuel Caps	SECURE
Fuel Vent	CHECK
Oil	6-8 Qts (6.5 preferred)
Propeller	CHECK
Air Inlets	CHECK
Air Filter	CHECK
Static Port	CHECK
Pitot Tube	CHECK
Stall Warning	CHECK
Gust Lock	REMOVE
Chawks	REMOVE
Tie Downs	REMOVE
Overall Condition	CHECK
Photo and report issues found	

BEFORE START

Seats and Belts	SECURE
Fuel Selector	BOTH
Radios / Electrical	OFF
Brakes	PRESSURE
Circuit Breakers	CHECK
Beacon	ON
Nav Lights	ON

START ENGINE

Mixture	RICH
Carb Heat	COLD
Prime	2-6 strokes & LOCK
Master	ON
Throttle	OPEN ¼ INCH
Propeller	CLEAR
Brakes	HELD
Ignition	START
Oil Pressure	CHECK
Mixture	Lean

BEFORE TAXI

Cold Weather	WARM OIL
Brakes	CHECK
Avionics	ON
Radios	SET
Flaps	UP
Altitude & Heading	SET
Lights	AS REQUIRED
Transponder	ALTITUDE
Circuit Breakers	CHECK
Area	CLEAR

RUN UP

Brakes	HELD
Flight Controls	FREE & CORRECT
Instrument	CHECK SET
Fuel Valve	ON
Mixture	RICH
Throttle	1700 RPM
Mixture	BEST POWER (150 drop 75 diff)
Magnetos	CHECK
Carb Heat	CHECK
Engine Instruments	CHECK
Suction	CHECK
Ammeter	CHECK
Throttle	IDLE
Carb Heat	CHECK AGAIN
Throttle	800-1000 RPM

BEFORE TAKEOFF

Trim	TAKEOFF
Takeoff Briefing	COMPLETE
Strobes	AS REQUIRED
Takeoff Area	CLEAR
Doors & Windows	SECURE
Radio	TAKEOFF CALL

NORMAL TAKEOFF

Flaps	0°
Carb Heat	COLD
Throttle	FULL OPEN
Airspeed & Engine Inst	CHECK
Rotate	60 MPH
Climb	75-85 MPH

CLIMB

Flaps	UP
Airspeed	80-90 MPH
Throttle	FULL OPEN
Mixture	LEAN BEST POWER

CRUISE

Throttle	2200-2500 RPM
Trim	ADJUST
Mixture	LEAN

BEFORE LANDING

Seats and Belts	SECURE
Instruments	SET
Radios	SET
Landing Light	AS REQUIRED
Mixture	RICH or BEST POWER
Carb Heat	CHECK & AS REQUIRED (keep on below 2100 RPM and 70°F)
Flaps	AS REQUIRED

NORMAL LANDING

Airspeed (flaps up)	70-80 MPH
Flaps	AS DESIRED
Airspeed (flaps down)	65-75 MPH

SHORT FIELD LANDING

Airspeed (flaps up)	70-80 MPH
Flaps	40°
Airspeed	69 MPH
Brakes	APPLY
Flaps	RETRACT

GO-AROUND

Throttle	FULL
Carb Heat	COLD
Flaps	20°
Airspeed	75-85 MPH
Flaps	RETRACT (slowly)
Climb	80-90 MPH

AFTER LANDING

Flaps	UP
Carb Heat	COLD
Mixture	LEAN

SHUTDOWN

Avionics	OFF
Mixture	CUT-OFF
Switches (not beacon)	OFF
Master Switch	OFF
Magnetos	OFF, KEY OUT

SECURING

Master Switch	VERIFY OFF
Hobbs & Tach	PICTURE
Flight Controls	LOCK
Windows	CLOSED
Window Shades	AS REQUIRED
Pitot Cover	INSTALL
Tie Downs	SECURE
Doors	LOCKED
FlightCircle	CHECK IN (include any oil added)
Key	RETURN
Fuel Receipts	SEND

AIRCRAFT V SPEEDS

Type	KIAS	MPH
Best Glide	69	80
Vr	56	65
Vx	56	64
Vy	73	84
Va	80-97	92-111

LIGHT SIGNALS

	ON GROUND	IN AIR
Steady Green	Clr Takeoff	Clr Land
Flashing Green	Clr Taxi	Return to Land
Steady Red	STOP	Yield/Circle
Flashing Red	Taxi off Rwy	Do not Land
Flashing White	Return to Start	---
Alt Red/Green	CAUTION	CAUTION

IMPORTANT FREQUENCIES

Emergency	121.50
FSS	122.20
Hicks	123.05
Air-to-air	122.85
Alliance ATIS	126.92
Alliance Tower	135.15
Meacham ATIS	120.70
Mecham Tower	118.30
Regional Approach	118.10

Cessna 172 Checklist

EMERGENCY

Pilot Rise, LLC

IN FLIGHT ENGINE FAILURE

Airspeed	80 MPH
Landing Site	SELECT
Carb Heat	ON
Primer	LOCKED
Fuel Selector	ON
Mixture	RICH
Ignition	CHECK
Throttle	SET
Radio (121.5 & 7700)	MAYDAY

ENGINE FAILURE ON TAKEOFF

Throttle	IDLE
Brakes	APPLY
Flaps	RETRACT
Mixture	CUT-OFF
Ignition	OFF
Master	OFF

ENGINE FAILURE AFTER TAKEOFF

Airspeed	80 MPH
Mixture	CUT-OFF
Fuel Valve	OFF
Ignition	OFF
Flaps	AS REQUIRED
Master	OFF

ENGINE ROUGHNESS

Fuel Valve	ON
Primer	LOCKED
Carb Heat	ON
If continues +2 min	
Carb Heat	COLD
Mixture	ADJUST
Engine Instruments	CHECK
Magnetos	CHECK

FORCED LANDING

Mixture	CUT-OFF
Fuel Valve	OFF
Ignition	OFF
Flaps	AS REQUIRED
Master	OFF
Doors	UNLATCH
Touchdown	TAIL LOW
Brakes	APPLY

DITCHING

Radio	MAYDAY
Heavy Objects	SECURE or JETTISON
Approach	
High winds, Heavy seas - INTO WIND	
Heavy swells - PARALLEL TO SWELLS	
Flaps	40°
Power	300 ft/min at 70 MPH
Doors	UNLATCH
Touchdown	LEVEL ATTITUDE (300 ft/min)
Face	CUSHION
Airplane	EVACUATE

ENGINE FIRE IN FLIGHT

Mixture	CUT-OFF
Fuel Valve	OFF
Master	OFF
Cabin Air and Heat (not wing vents)	OFF
Airspeed	120 MPH (if continues, speed up to extinguish)
Emergency Descent	EXECUTE
Forced Landing	EXECUTE

FIRE ON START

Cranking	CONTINUE
If starts:	
Power	1700 RPM (few mins)
Engine	SHUTDOWN
If no start:	
Fire Extinguisher	OBTAIN
Master	OFF
Ignition	OFF
Fuel Valve	OFF
Aircraft	EVACUATE
Fire	EXTINGUISH

ELECTRICAL FIRE

Master	OFF
Switches	OFF
Vents	CLOSED
If fire out:	
Essential Items	TURN ON (one at a time)
Radio	MAYDAY
If fire continues:	
Emergency Descent	EXECUTE
Forced Landing	EXECUTE

EMERGENCY DESCENT

Power IDLE
Flaps (if able) FULL
Speed MAX SAFE SPEED
S-Turns, Slips, and Spiral to get down

ELECTRICAL FAILURE

Load Meter VERIFY INOP
Alternator OFF
Alt Breaker ON
Alternator ON
Off if power not restored
Land as soon as practical

CARBURETOR ICING

Carb Heat ON
Mixture ADJUST
(Use carb heat below 2100 RPM when
OAT is < 70°F)

SPIN RECOVERY

Throttle IDLE
Ailerons NEUTRAL
RUDDER OPPOSITE
Yoke FORWARD
When rotation stops:
Rudder NEUTRAL
Pitch LEVEL

ICING

Pitot Heat ON
TURN BACK
CHANGE ALTITUDE
Cabin Heat ON
Throttle OPEN
Carb Heat AS REQUIRED
Flaps LEAVE RETRACTED
Open side window to scrape ice
Land with forward slip for visibility
Approach 75-85 MPH

AIRCRAFT V SPEEDS

Type	KIAS	MPH
Best Glide	69	80
Vr	56	65
Vx	56	64
Vy	73	84
Va	80-97	92-111

SQUAWKS

VFR	1200
Hijack	7500
Loss Communication	7600
Emergency	7700

LIGHT SIGNALS

	ON GROUND	IN AIR
Steady Green	Clr Takeoff	Clr Land
Flashing Green	Clr Taxi	Return to Land
Steady Red	STOP	Yield/Circle
Flashing Red	Taxi off Rwy	Do not Land
Flashing White	Return to Start	---
Alt Red/Green	CAUTION	CAUTION