

Cessna 172

preflight

Cessna 172

ver.1.2 11.03.2011

emergency

Preflight Inspection Cockpit

Aircraft docs	check
Control wheel lock	Remove
Hobbs/Tach	Check/Record
Ignition	Off
Awionics Master Switch	Off
Master Switch	On
Fuel quantity indicators	Check
Awionics Master Switch	On
Awionics Cooling Fan	Audible
Awionics Master Switch	Off
Flaps	Down
Master Switch	Off
Static Pressure Alt Src	check/Off
Fuel shutoff valve	On

Fuselage and Empenage

Baggage Door	Closed & Locked
Rivets	Check
Tail Tie-Down	Disconnect
Control surfaces	Free & Secure
Trim Tab	Check
Antennas	Check

Right wing

Flaps	secure
Aileron	free & secure
Wing tie-down	disconnect
Main wheel tire	inflated
Brakes	not leaking
Fuel tank sump	sample
Fuel Quantity	check
Fuel Filler cap	Secure

Nose

Engine oil level	check
Fuel strainer	sample
Under fuselage strainer	check
Propeller and spinner	check
Alternator belt	check
Air intake	check
Carburetor air filter	check
Nose wheel strut & tire	check
Static source opening	check

Left Wing

Main wheel tire	inflated
Brakes	not leaking
Fuel tank sump	sample
Fuel Quantity	check

Fuel Filler cap	Secure
Pitot tube	uncover and check
Stall warning	check
Fuel tank vent opening	check
Wing tie-down	disconnect
Landing/Taxi lights	check
Aileron	free & secure
Flaps	secure

Before starting engine

Preflight inspection	complete
Seats, belts	adjust and lock
Fuel shutoff valve	BOTH/ON
Radios & elect	OFF
Awionics Master Switch	OFF
Brakes	test and set
Circuit breakers	IN

Starting engine

Mixture Rich	IN
Throttle	Open 1 cm
Carb heat COLD	IN
Beacon	ON
Prime	As required/locked
Master Switch	ON
Propeller area	CLEAR
Ignition	START
Throttle	Adjust 1000 rpm
Oil Pressure	check normal
Awionics Master Switch	ON
Avionics	ON
Transponder	Standby
Flaps	UP
Taxi light	ON

Before Takeoff

Taxi light	OFF
Cabin doors	CLOSE & LATCH
Flight controls	free & correct
Instruments (AI Alt TC DG Vert)	Check
Fuel Shutoff Valve	BOTH/ON
Mixture RICH	IN
Trim	set for TAKE OFF
Throttle	1800 rpm
Magnetos (R/L)	check
Suction gage	check
Engine Instruments	check
Ammeter	check
Carb heat	ON
Throttle	IDLE - 1000rpm
Throttle friction lock	ADJUST
Radios/Avionics	SET
Strobe lights	ON
Landing lights	ON

Engine failure

TAKEOFF

Throttle	IDLE
Brakes	apply
Flaps	UP
Mixture	IDLE cut-off
Ignition	OFF
Master switch	OFF

AFTER TAKEOFF

Airspeed	60 KIAS
Mixture	Idle Cut-off
Fuel shutoff valve	OFF
Ignition	OFF
Flaps	as required
Master switch	OFF

DURING FLIGHT

Airspeed	65 KIAS
LOOK FOR A FIELD	
Carb Heat	ON
Primer	IN & Locked
Fuel Shutoff valve	BOTH/ON
Mixture	RICH
Ignition	BOTH (or START)
Airspeed	60(flaps) /65
Mixture	cutoff
Fuel shutoff valve	OFF
Ignition	OFF
Flaps	as required
Mayday	transmit 121.5
Master switch	OFF
Doors	unlatch
Touchdown	tail low

Carburetor Icing

Throttle	FULL
Carb Heat	ON (out)
Mixture	Adjust

Engine Roughness

Magnetos	check
Mixture	lean as necessary

Engine Fire during start

Crank	Continue
Power	1700 RPM (2min)
Engine	Shut down and inspect

Engine Fire during flight

Mixture	Idle Cut-off
Fuel shut off valve	OFF
Master Switch	OFF
Cabin head/air	OFF
Airspeed	100 KIAS

Electrical failure

Load meter	verify
Alternator	OFF
Reduce load to minimum	
Breaker/alt	check & reset
Alternator	ON
If still no power:	
Alternator	OFF
Reduce load & LAND	

Electrical overload

Master Switch	OFF
Master Switch	ON
Over-voltage light	OFF
or TERMINATE flight ASAP	

Spin Recovery

Ailerons	NEUTRAL
Throttle	IDLE
Rudder	Full opposite
Control wheel	full forward
Rudder control/wheel	Neutral
Pitch	Level



Line UP	
Flaps	UP or 10°
Gyrocompas	Check
Transponder	Altitude
Time	Check
After Takeoff	
Flaps	UP
Carb Heat	Cold (IN)
Throttle	Full & Secured
Tach, oil, airspeed	Check
Landing Light	OFF
Cruise	
Direction Gyro	Set
Throttle & Mixture	As required
Trim	Set
Fuel & Engine gauges	Check
Pre-descent	
Mixture	Rich
Carb Heat	ON (OUT)
Final	
Flaps	As required
Landing light	ON
Carb Heat	COLD
After landing	
Flaps	UP
Carb Heat	COLD (IN)
Transponder	Standby
Strobe lights	OFF
Parking	
Avionics	OFF
Avionics Master Switch	OFF
Electrical	OFF
Throttle	1000 RPM
Mixture	Cut-off
Ignition switch	OFF
Master switch	OFF
Securing the aircraft	
Control Lock	Install
Hobbs/Tach	Record
Pitot tube	Secure
Door/Window	Secure
Tie-downs	Secure

Short field take-off	
Take-off checklist	complete
Taxi	max runway
Brakes	set and hold
Flaps	10°
Throttle	FULL
Brakes	release
Climb	57 KIAS
Flaps	retract when clear
Airspeed	67 KIAS
Short field landing	
Pre-landing check	complete
Approach	62 KIAS
Flaps	30°
Throttle	maintain glide
Touchdown	power off
Flaps	UP
Elevator	Full up
Braking	Heavy as required
Soft field take-off	
Take-off checklist	complete
Flaps	10°
Taxi	keep rolling
Climb	57 KIAS
Flaps	retract
Airspeed	67 KIAS
Soft field landing	
Pre-landing check	complete
Throttle	1500 RPM
Flaps	10°
Airspeed	60 KIAS
Touchdown	main first, softly
Landing roll	nose wheel up
Elevator	UP
Braking	as required
Go-around	
Throttle	FULL
Carb Heat	Cold (IN)
Flaps	20°
Climb	55 KIAS
Flaps	10°
Climb	65 KIAS

Light Signals:		
Signal	On Ground	In Flight
Steady Green	Takeoff	Land
Flashing Green	Taxi	Ret, to land
Steady Red	Stop	Give way
Flashing Red	Clear Runway	Do not land
Flashing White	Return to ramp	--
Red/Green alternating	WARNING – USE CAUTION	

Jedynka	One
Dwa	Two
Trzy	Three
Cztery	Four
Piątka	Five
Sześć	Six
Siedem	Seven
Osiem	Eight
Dziewięć	Niner
Dziesięć	Ten

Alpha
Bravo
Charlie
Delta
Echo
Foxtrot
Golf
Hotel
India
Juliet
Kilo
Lima
Mike
November
Oscar
Papa
Quebec
Romeo
Sierra
Tango
Uniform
Victor
Whiskey
Xray
Yankee
Zulu

V-Speeds (KIAS)			Comm and VOR freq	
Rotate	V _r	55	Babice Info	119,175
Max angle	V _x	65	Babice Radio	122,300
Climb rate	V _y	76	Warszawa Info	119,450
Maneuver	V _a	82-99	Olsztyn Info	118,775
Flaps	V _{fe}	85	Modlin Radio	123,925
Normal max.	V _{no}	127	Grądy Radio	126.925
Never exceed	V _{ne}	158	Nasielsk Radio	122.20
Climb		70-80	Warsaw Approach	128.80
Stall (land)	V _{so}	33	VOR WAR	114.90
Stall (no flaps)	V _s	44	VOR LIN	113.10
Final aproach	Flaps	60-70	VOR KRN	117.80
	No Flap	65-75	VOR OKE	113,40
Max Glide		65	Emergency	121,5

BRIEFING	
1.	MET. CONDITIONS
2.	PERFORMANCE
3.	COM SETTING
4.	NAV SETTING
5.	TAKE-OFF / LANDING
6.	DEPARTURE / ARRIVAL
7.	EMERGENCY

TRANSPONDER
7500 – HIJACK
7600 – COM FAILURE
7700 – EMERGENCY

