

## Cessna 172 (N & P)

### PREFLIGHT

COCKPIT	
Aircraft Documents	CHECK
Control Lock	REMOVE
Ignition Switch	OFF
Fuel Valve	CYCLE / BOTH
Mixture	CUTOFF
Trim	TAKEOFF
Alternate Static	CHECK
Circuit Breakers	IN
Master switch	ON
Flaps	10 degrees
Fuel gauges	CHECK
Acrft/Cockpit Lights	CHECK
Master switch	OFF

### FUSELAGE: Left Side

Fuel sump	DRAIN
Gear Strut	CHECK
Brake Assembly	CHECK
Tire	CHECK
Door	CHECK
Rear window	CHECK
Baggage Door	SECURE
Fuselage	CHECK

### EMPENNAGE

Horizontal Stab	CHECK
Elevator	CHECK
Rudder	CHECK
Tail Tiedown	REMOVE
Elevator Trim Tab	CHECK

### FUSELAGE: Right Side

Fuselage	CHECK
Antennas	CHECK
Rear Window	CHECK
Door	SECURE
Gear Strut	CHECK
Brake Assembly	CHECK
Tire	CHECK
Fuel Sump	DRAIN

### PREFLIGHT ( CONT.)

RIGHT WING	
Flap	CHECK
Aileron	CHECK
Wing Tip	CHECK
Leading Edge	CHECK
Tiedown	REMOVE
Fuel Quantity	CHECK VISUALLY
Belly Sump	DRAIN

### NOSE/POWERPLANT

Fuel Strainer	DRAIN
Engine Oil Dipstick	CHECK
Exhaust Stack	CHECK
Alternator Belt	CHECK
Propellor	CHECK
Spinner	CHECK
Cowling	CHECK
Landing Light	CHECK
Air Filter	CHECK
Nosewheel Strut and Tire	CHECK
Static Source Opening	CHECK
Windscreen	CHECK

### LEFT WING

Fuel Quantity	CHECK VISUALLY
Pitot Tube	CHECK
Fuel Vent	CHECK
Stall Warning	CHECK
Wing Tiedown	REMOVE
Leading Edge	CHECK
Wing Tip	CHECK
Aileron	CHECK
Flap	CHECK

### BEFORE STARTING ENGINE

Passenger Briefing	COMPLETE
Seats	ADJUSTED
Seatbelts	FASTENED
Brakes	TEST & SET
Beacon switch	ON
Radios	OFF
Circuit Breakers	IN

### STARTING ENGINE

Mixture Control	RICH
Throttle Control	Open 1/4 inch
Carb Heat	OFF
Primer	AS NEEDED
Propellor area	"Clear"
Master Switch	ON
Ignition Switch	START
Throttle Control	IDLE
Oil Pressure	GREEN ARC
Ammeter Indication	CHECK
Mixture Control	LEAN

### FREQUENCIES

UNITED FLIGHT	123.5
HOOKS UNICOM	122.95
HOOKS ATIS	128.375
HOOKS GROUND	121.8
HOOKS TOWER	118.4
APPROACH	123.80 / 124.35
FLIGHT SERVICE	122.4

### BEFORE TAXI

Flaps	UP / CHECK
Radios	SET
Transponder	ALTITUDE
Instruments	CHECK / SET
Area	CLEAR
Brakes	RELEASE / TEST

### TAXI

Flight Controls	AS NEEDED
Compass	FLUID / HEADINGS
6 Flight Instruments	CHECK
Coms / Navs	CHECK OPS

### BEFORE TAKEOFF

Parking Brake	SET
Doors / Windows	CLOSED
Mixture Control	ENRICHEN
Throtlle	1700 RPM
Magnetos <small>(max drop 125 RPM)</small>	CHECK
Engine Instruments	GREEN ARC
Ammeter	CHECK
Suction	GREEN ARC

### BEFORE TAKEOFF (CONT.)

Carb Heat	ON
Throttle	IDLE
Carb Heat	OFF
Flight controls	CHECK
Trim	TAKEOFF
Flight Instruments	SET
Radios	SET
Fuel Valve	ON
Mixture Control	ENRICHEN
Seatbelts	FASTENED
<b>TAKEOFF BRIEFING - EMERG. PROCEDURES</b>	
Approach Path	VISUALLY CLEAR
Transponder	ALTITUDE
Line Up Check	"THAT'S"
Time - Heading - Alt / Alt - Transponder	

### TAKEOFF

--- NORMAL ---	
Flaps	0 DEGREES
Throttle Control	FULL
Engine Instruments	GREEN ARC
Rotate	55 KIAS
Climb	76 KIAS
--- SHORT FIELD---	
Flaps	10 DEGREES
Brakes	APPLY
Throttle Control	FULL
Engine Instruments	GREEN ARC
Brakes	RELEASE
Rotate	55 KIAS
Climb	59 KIAS
Altitude	CLEAR OBSTACLE
Climb	76 KIAS
--- SOFT FIELD---	
Flaps	10 DEGREES
Flight Controls	FULL AFT
Throttle Control	FULL
Engine Instruments	GREEN ARC
Aircraft	GROUND EFFECT
Climb	59 KIAS
Altitude	CLEAR OBSTACLE
Climb	76 KIAS

CRUISE CLIMB	
Airspeed	80 KIAS
Mixture Control	LEAN AS REQUIRED
Engine Instruments	GREEN ARC

CRUISE	
Pitch	LEVEL
Power	2200/2300 RPM
Trim	ADJUST
Mixture	LEAN
Engine Instruments	GREEN ARC

DESCENT	
Fuel Valve	BOTH
Mixture	ENRICHEN
Power	AS NEEDED
Carb Heat	AS NEEDED
Engine Instruments	GREEN ARC
Airport Environment	PREP

BEFORE LANDING	
Fuel Valve	BOTH
Mixture control	ENRICHEN
Carb Heat	ON
Primer	IN / LOCKED
Seatbelts	FASTENED
Landing Light	AS NEEDED
GUMPS C	COMPLETE

LANDING	
--- NORMAL ---	
Airspeed	65 KIAS
Flaps	AS REQUIRED
Elevator trim	AS REQUIRED
Braking	Minimum required
--- NO FLAP ---	
Airspeed	65 KIAS
Elevator trim	AS REQUIRED
Braking	Minimum required
--- SHORT FIELD ---	
Airspeed	59 KIAS
Flaps	30 DEGREES
Elevator trim	AS REQUIRED
Braking	MAXIMUM

LANDING ( CONT.)	
--- SOFT FIELD ---	
Airspeed	65 KIAS
Flaps	30 DEGREES
Elevator trim	AS REQUIRED
Power	Increase in flair
Flight Controls	Full Aft after TD
---GO AROUND ---	
Throttle control	FULL
Carb Heat	OFF
Flaps	TO 20 DEGREES
Airspeed	59 KIAS
Obstacle	CLEAR
Airspeed	75 KIAS
Flaps	RETRACT SLOWLY

AFTER LANDING (off active runway)	
Flaps	RETRACTED
Carb Heat	OFF
Transponder	STANDBY
Lights	OFF
Mixture	LEAN FOR TAXI

SHUTDOWN	
Avionics	OFF
Electrics	OFF
Mixture Control	IDLE CUTOFF
Ignition Switch	OFF
Master Switch	OFF
Trim	TAKEOFF
Control Lock	INSTALL
Hobbs / Tach	RECORD
Tiedowns	SECURE

ENGINE FAILURES	
--- TAKEOFF RUN ---	
Throttle control	IDLE
Brakes	APPLY
Flaps	VERIFY / RETRACT
Mixture	CUTOFF
Ignition	OFF
Master	OFF
---CLIMBOUT ---	
Airspeed	65 KIAS
Fuel Valve	OFF
Mixture	CUTOFF
Throttle control	IDLE
Ignition switch	OFF
Flaps	AS REQUIRED
Master	OFF

INFLIGHT RESTART	
Airspeed	65 KIAS
SELECT FIELD	FLY TO IT
Fuel Valve	ON
Mixture	RICH
Carb Heat	ON
Primer	IN / LOCKED
Ignition	
Prop Turning	CYCLE / BOTH
Prop Stopped	START
Transponder	7700
Radio	121.5 'MAYDAY'

INFLIGHT SECURE	
Airspeed	65 KIAS
Fuel Valve	OFF
Mixture	CUTOFF
Throttle control	IDLE
Ignition switch	OFF
Flaps	AS REQUIRED
Master	OFF
Doors	OPEN
Seatbelts	FASTENED / TIGHT
PREP	
PASSENGERS	

FORCED LANDING	
Seat Backs	Most Upright
Seatbelts	Secure
Airspeed ( Flaps UP)	65 KIAS
Airspeed (Flaps down)	60 KIAS
Transponder	SQUAWK 7700
Radios (transmit MAYDAY)	121.5
Mixture	EDLE CUTOFF
Fuel Valve	OFF
Ignition	OFF
Wing Flaps	AS REQUIRED
Master Switch	
when landing is assured	OFF
Doors (prior to touchdown)	UNLATCH
Touchdown	SLIGHTLY TAIL LOW
Brakes	APPLY HEAVILY

V SPEEDS	
Vso	33
Vs	44
Vx	59
Vg	65
Vy	73
Vfe	85
Va	80 - 97
Vno	127
Vne	158

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Notes:	