

Cessna 172 G-1000



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

PREFLIGHT

CABIN	
Pitot tube cover	REMOVE
POH	ACCESSIBLE
G1000 reference guide	ACCESSIBLE
A/C weight and balance	CHECKED
Parking brake	SET
Control Lock	REMOVE
Magneto switch	OFF
Avionics switch (bus 1&2)	OFF
Master switch (Alt and Batt)	ON
Primary Flight Display (PFD)	VERIFY ON
Fuel Qty (R & L)	CHECK
Low Fuel annunciators L & R	NOT on PFD
Oil Pressure annunciator	SHOWS ON PFD
Low Vacuum Annunciator	SHOWS ON PFD
Avionics switch (bus 1)	ON
Forward avionics fan	VERIFY ON
Avionics switch (Bus 1)	OFF
Avionics switch (Bus 2)	ON
Aft avionics fan	VERIFY ON
Avionics Switch (Bus 2)	OFF
Pitot Heat switch	ON - OFF
Low Volts Annunciator	SHOWS ON PFD
Flaps	10 degrees
Master switch (Alt and Batt)	OFF
Elevator trim control	TAKEOFF
Fuel Selector valve	BOTH
Alternate Static Air Valve	ON / OFF
Fire Extinguisher	CHECK - GREEN

PREFLIGHT (CONT.)

EMPENNAGE	
Baggage Door	CHECK
Autopilot Static Source	CHECK
Rudder Gust Lock	REMOVE
Tail Tiedown	DISCONNECT
Control surfaces	CHECK
Elevator Trim Tab	CHECK
Antennas	CHECK
RIGHT WING	
Flap	CHECK
Aileron	CHECK
Wing Tiedown	REMOVE
Main Wheel Tire	CHECK
Fuel Drain sump	DRAIN
Fuel Quantity	CHECK VISUALLY
Fuel Filler Cap	Secure - Vent Clear
NOSE	
Fuel Strainer Quick Drain	DRAIN
Engine Oil Dipstick/Filler cap	CHECK - SECURE
*** do not operate with less than 5 qts	
Engine Cooling Air Inlets	CLEAR
Prop and Spinner	CHECK
Air Filter	CHECK
Nosewheel Strut and Tire	CHECK
Static Source Opening	CHECK
LEFT WING	
Fuel Tank Vent Opening	CHECK
Stall Warning Opening	CHECK
Landing/Taxi Light(s)	Check
Wing Tiedown	DISCONNECT
Fuel Quantity	CHECK VISUALLY
Fuel Filler Cap	Secure - Vent Clear
Fuel tank sump drain	DRAIN
Main Wheel Tire	CHECK
Aileron	CHECK
Flap	CHECK

BEFORE STARTING ENGINE

Preflight Inspection	COMPLETE
Passenger Briefing	COMPLETE
Seats and Seatbelts	ADJUST & LOCK
Brakes	TEST & SET
Circuit Breakers	CHECK IN
Electrical Equipment	OFF
Avionics Switch (Bus 1&2)	OFF
Fuel Selector valve	BOTH
Fuel Shutoff valve	ON (PUSH IN)

STARTING ENGINE

Throttle Control	Open 1/4 inch
Mixture Control	IDLE CUTOFF
Standby Battery Switch	TEST ON 20 SEC
Standby Battery Switch	ARM - PFD ON
Engine Indicating System	CHECK Parameters
Bus E volts	CHECK (24V Min)
M Bus Volts	CHECK (1.5V MAX)
Batt S Amps	CHECK (Discharge)
Standby Battery Annunc.	SHOWS ON PFD
Prop area	"Clear"
Master Switch (Alt & Bat)	ON
Beacon switch	ON
Flaps	UP
--- COLD START ---	
Fuel Pump	ON
Mixture Control	FULL
get fuel flow then	IDLE CUTOFF
Fuel Pump	OFF
Magneto Switch	START
Mixture Control after start	RICH
--- HOT START ---	
Magneto Switch	START
Mixture Control after start	RICH
Oil Pressure	CHECK
AMPS (M batt & Batt S)	CHECK (Positive)
Low Volts Annunciator	NOT on PFD
Avionics Switch (Bus 1&2)	ON

BEFORE TAKEOFF

Parking Brake	SET
Pilot and Passenger seat	MOST UPRIGHT
Seats & seatbelts	SECURE
Cabin Doors	CLOSED/LOCKED
Flight Controls	FREE & CORRECT
Flight Instruments (PFD)	NO RED X's
Altimeters	
PFD (Baro)	SET
Standby Altimeter	SET
KAP 140 (Baro)	SET
Standby Instruments	CHECK
Fuel Quantity	CHECK
Mixture Control	RICH
Fuel Selector	BOTH
Elevator trim control	TAKEOFF
Manual Electric Trim	CHECK
Throttle	1800 RPM
Magnetos	CHECK
Vacuum indicator	CHECK
Engine Instruments	CHECK
Ammeters & Voltmeters	CHECK
Annunciators	CHECK
Throttle	CHECK IDLE
Throttle	1000 RPM or Less
Throttle friction lock	ADJUST
Corn/Nav Frequencies	SET
FMS/GPS flight plan	AS DESIRED
Transponder	ALTITUDE
CDI softkey	SELECT NAV source
Autopilot	OFF
Cabin Power 12v Switch	OFF
Flaps	UP - 10 deg. pref.
Windows	CLOSED/LOCKED
Strobes	ON
Brakes	RELEASE
--- NORMAL ---	
Flaps	UP - 10 deg. pref.
Throttle Control	FULL
Mixture Control	RICH
Elevator (55 kias)	LIFT Nosewheel
Climb Speed	70-80 KIAS
Flaps	RETRACT AT ALT.

TAKEOFF (CONT.)	LANDING	
--- SHORT FIELD---	--- NORMAL ---	
Flaps 10 degrees	Airspeed (flaps UP)	65-75 KIAS
Brakes APPLY	Flaps	AS DESIRED
Throttle Control FULL	Airspeed (flaps FULL)	60-70 KIAS
Mixture Control RICH	Elevator trim	ADJUST
Brake RELEASE	Touchdown	Main Wheels first
Elevator SLIGHT TAIL LOW	Landing Roll	Lower nose gently
Climb Speed 56 KIAS - til obst cleared	Braking	Minimum required
Flaps RETRACT SLOWLY	--- SHORT FIELD ---	
ENROUTE CLIMB		
Airspeed 70- 85 KIAS	Airspeed (flaps UP)	65-75 KIAS
Throttle Control FULL	Flaps	FULL
Mixture Control RICH	Airspeed (flaps FULL)	61 KIAS until flare
Elevator trim ADJUST		
Power (after clear obstacle) IDLE		
Touchdown Main Wheels first		
Brakes APPLY HEAVILY		
Flaps UP		
CRUISE		
Power 2100 - 2700 RPM	--- BALKED LANDING ---	
Elevator trim ADJUST	Throttle control	FULL
Mixture AS NEEDED**	Flaps	RETRACT to 20 deg
**Lean above 3000 PA	Climb speed	60 KIAS
FMS/GPS REVIEW/BRIEF OBS/SUSP	Flaps (to clear obstacle)	10 degrees
Flaps (after clear) UP		
DESCENT		
Power AS DESIRED	AFTER LANDING	
Mixture AS NEEDED	Flaps (off active runway)	UP
Altimeters:	Transponder	VFR CODE
PF D (Baro) SET	Lights	AS NEEDED
Standby Altimeter SET	Mixture	LEAN AS NEEDED
KAP 140 (Baro) SET	SECURE AIRCRAFT	
G1000 AltSel SET	Parking brake	SET
KAP 140 Alt Preselect SET	Throttle control	IDLE
CDI Spofkey SELECT NAV source	Electrical equipment	OFF
FMS/GPS REVIEW/BRIEF OBS/SUSP	Tach Time	RECORD
Fuel selector BOTH	Avionics Switch (Bus 1&2)	OFF
Flaps AS DESIRED	Mixture Control	IDLE CUTOFF
BEFORE LANDING		
Seat backs MOST UPRIGHT	Magnetos	OFF
Seats & seatbelts SECURED/LOCKED	Master Switch (Alt & Bat)	OFF
Fuel Selector BOTH	Stby Batt switch	OFF
Mixture control RICH	Control Lock	INSTALL
Landing & Taxi Lights ON	Fuel Selector	LEFT OR RIGHT
Autopilot OFF		

ENGINE FAILURES	FORCED LANDING	
---TAKE OFF RUN---		
Throttle Control IDLE	Seat Backs MOST UPRIGHT	
Brakes APPLY	Seatbelts SECURE	
Flaps RETRACT	Airspeed (Flaps Up) 70 KIAS	
Mixture IDLE CUTOFF	Airspeed (Flaps 10 ⁰) 65 KIAS	
Magentos OFF	Mixture IDLE CUTOFF	
Stby Batt OFF	Fuel Shutoff OFF	
Master (Alt and Batt) OFF	Magnetos OFF	
---Climbout---	Flaps AS REQUIRED (FULL REC)	
Airspeed (Flaps Up) 70 KIAS	Stby Batt OFF	
Airspeed (Flap Down) 65 KIAS	Master (Alt & Batt) OFF	
Mixture IDLE CUTOFF	Doors UNLATCH	
Fuel Shutoff OFF	Touchdown SLIGHTLY TAIL LOW	
Magnetos OFF	Brakes APPLY HEAVILY	
Flaps AS REQUIRED	NOTES:	
Stby Batt OFF		
Master (Alt and Batt) OFF		
Cabin Door UNLATCH		
Land STRAIGHT AHEAD		
INFLIGHT RESTART		
Airspeed 68 KIAS		
SELECT FIELD FLY TO IT		
Fuel Shutoff ON		
Fuel Selector BOTH		
Fuel Pump ON		
Mixture RICH		
Magentos (prop windmilling) BOTH		
Magnetos (Prop Stopped) START		
Fuel Pump OFF		
V SPEEDS		
Vso	40 KIAS	
Vs	48 KIAS	
Vx	62	
Vy	74	
Vfe	110 KIAS	
Va	90-105	
Vno	129 KIAS	
Vne	163 KIAS	