

United Flight Systems



N13CB - C172P / TAA NORMAL OPERATIONS

BEFORE START ENGINE

HOBBS RECORD
 PREFLIGHT INSPECTION..... COMPLETE
 A.R.R.O.W..... CHECK
 AIRPORT DIAGRAM AVAILABLE
 PASSENGER BRIEF..... S.A.F.E.T.Y.
 Seat & Seat Belts, Air, Fire, Exit/Emergencies,
 Traffic & Talking, Your Questions?
 SEATS & SEAT BELTS..... LOCKED / FASTENED
 MASTER (bat & alt)..... OFF
 AVIONICS MASTER SWITCHES (2)..... OFF
 FUEL SELECTOR..... BOTH
 CIRCUIT BREAKERS CHECK
 CARB HEAT OFF
 THROTTLE CLOSED
 MASTER (bat & alt)..... ON
 BEACON ON
 NAV LIGHTS AS REQ

ENGINE START

BRAKES SET / HOLD
 MIXTURE..... RICH / FULL FWD
 COLD ENGINE(max 6 pumps) PRIME AS REQ
 THROTTLE CLOSED / 1/8 IN
 PROP AREA CLEAR PROP
 STARTER (8-10 seconds max) ENGAGE
****WHEN ENGING STARTS****
 THROTTLE 1000 RPM
 OIL PRESSURE CHECK
 MIXTURE..... LEAN

AFTER START

AVIONICS MASTER SWITCHES (2)..... ON
 HEATER / DEFROST AS REQ
 HEADSETS..... ON / CHECK
 AMPS OUTPUT CHECK
 GPS DATABASE CURRENCY..... CHECK / ENT
 GPS / OBS TEST..... CHECK / ENT
 COMS SET / ATIS
 ALTIMETERS SET
 CLEARANCE (If IFR) OBTAIN
 GPS ENTER WPT/FPL/APR AS REQ
 CDI KEY(as req. for departure) VLOC/GPS
 NAVS SET / COURSE
 FLIGHT INSTRUMENTS..... CHECK / SET
 FUEL TOTALIZER SET QTY
 TRANSPONDER SET CODE / ALT MODE
 FLAPS..... CHECK / UP

TAXI

Do Not Ride Brakes

AIRPORT DIAGRAM AVAILABLE
 TAXI CLEARANCE OBTAIN / BRIEF
 TAXI AREA..... (left & right) CLEAR
 BRAKES RELEASE / CHECK
 FLIGHT INSTRUMENTS..... CHECK

Check in turns.

STERILE COCKPIT NO NONESSENTIAL TALKING

****Pre-Takeoff Emergency Brief****

Engine Failure on runway
 THROTTLE IDLE
 BRAKES APPLY
 STOP STRAIGHT AHEAD
 Engine Failure After Rotation
 THROTTLE IDLE
 PITCH FOR BEST GLIDE 65
 CONTINUE STRAIGHT AHEAD
 At or above 1000ft AGL – Turn around point
 TURN TO AIRPORT

RUN UP

BRAKES SET / HOLD
 DOORS CLOSE / LOCKED
 FUEL GAUGES / QTY / TOTALIZER..... CHECK
 FUEL SELECTOR..... BOTH
 MIXTURE..... (below 3000' MSL) FULL FWD
 THROTTLE 1700 RPM
 MAGNETOS..... (125 max drop, mas diff. 50) CHECK
 OIL TEMPERATURE & PRESSURE..... CHECK
 SUCTION CHECK
 AMPS CHECK
 CARB HEAT ON / VERIFY DROP
 THROTTLE IDLE
 CARB HEAT OFF
 THROTTLE 1000 RPM
 MIXTURE..... LEAN
 FLIGHT CONTROLS FREE / CORRECT
 AUTOPILOT CHECK / CUTOFF CHECK
 TRIM SET
 BRAKES RELEASE

BEFORE TAKEOFF

****TAKE OFF / EMERGENCY PLAN**** BRIEF
 FLAPS SET FOR TAKEOFF
 PFD AND STBY / INSTRUMENTS..... CHECK
 DOORS CLOSE / LOCKED
 SEATBACKS SECURE
 SEATS & SEAT BELTS LOCKED / FASTENED

Final items when #1 for takeoff

L Flow – Left to Right

WINDOWS CLOSED / LOCKED
 ENGINE GAUGES CHECK
 PRIMER LOCKED
 MASTER (bat & alt) ON
 LANDING LIGHT ON
 STROBE AS REQ
 CARB HEAT OFF
 MIXTURE SET
 TRANSPONDER VERIFY ALT / SET
 FLAPS VERIFY SET
 TRIM SET
 FUEL SELECTOR..... BOTH

TAKE OFF

THROTTLE FULL
 ROTATE 55 KTS
 YOKE APPLY BACK PRESSURE / ESTABLISH CLIMB
 CLIMB 70 - 80 KTS
 V_X - 60 KTS / V_Y - 76 KTS

AFTER TAKEOFF

Above 1000 AGL

CRUISE CLIMB 70 - 85 KTS
 THROTTLE FULL
 FLAPS UP CHECK
 MIXTURE LEAN ABOVE 3000' MSL

CRUISE

THROTTLE SET
 2300-2400 RPM LOCAL / 75% BHP FOR XC
 ENGINE / SYSTEM INSTRUMENTS CHECK
 LANDING LIGHT OFF
 MIXTURE LEAN

V Speeds	KDWH Frequencies
V _R 55	Ground 121.8
V _Y 76	Tower 118.4
V _X 60	Unicom 122.95
V _{FE} 85	West Practice .. 123.5
V _A 82-99	ATIS 128.375
V _{NO} 127	Hou App NW ... 119.7
V _{NE} 158	Hou App SW 123.8
V _G 65	Max Demo Xwind .15

DESCENT

For XC use

ATIS / AWOS CHECK
 APPROACH BRIEFING COMPLETE
 ALTIMETER SET
 CARB HEAT AS REQ
 THROTTLE AS REQ
 MIXTURE SLIGHTLY ENRICH

APPROACH (15NM FROM AIRPORT)

ATIS / AWOS CHECK
 APPROACH BRIEFING COMPLETE
 ALTIMETER CHECK
 FUEL SELECTOR BOTH
 MIXTURE SLIGHTLY ENRICH
 PARKING BRAKE OFF
 LANDING LIGHT ON

When direct to IAF or Vectored

FLIGHT & NAV Instruments SET / IDENT
 CDI KEY VLOC / GPS
 AIRSPEED 90 KTS

BEFORE LANDING CHECKLIST

A.G.U.M.P.S.

AUTOPILOT OFF
 FUEL SELECTOR BOTH
 MIXTURE SET FOR ALT / FULL RICH
 CARB HEAT ON
 POWER AS REQ
 SEAT BELTS / SWITCHES CHECK
 FLAPS (V_{FE} 85) AS REQ

GO AROUND / MISSED APPROACH

"Cram, Climb, Clean, Click, Call"

THROTTLE FULL
 CARB HEAT OFF
 FLAPS 20 IMMEDIATELY
 PITCH 60 KTS / PITCH FOR CLIMB
 FLAPS 10 POS RATE, OBST CLEARED, 65 KTS
 FLAPS UP .. AFTER REACHING SAFE ALT 70+ KTS
 Fly assigned or published heading & altitude

AFTER LANDING

When aircraft is stopped

GROUND OR ASSIGNED FREQ CHECK
 FLAPS UP
 CARB HEAT OFF
 MIXTURE LEAN
 TAXI CLEARANCE OBTAIN / BRIEF

SHUTDOWN

CALL FOR FUEL @ KDWH 122.95
 TRANSPONDER 1200 / VFR
 AVIONICS MASTER OFF
 THROTTLE 1000 RPM
 MIXTURE CUTOFF

When Propeller stops

MAGNETOS OFF
 MASTER SWITCH OFF
 ELECTRICAL SWITCHES OFF
 FUEL SELECTOR LEFT or RIGHT
 HOBBS / TACH RECORD

Secure aircraft, tiedown and walk around.

Note and record squawks

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This checklist is for reference. It is not intended to replace the POH / AFM.

United Flight Systems



C172P - PREFLIGHT

CABIN

Walk up to aircraft INSPECT FOR DAMAGE
Oil Level CHECK
Pitot Tube Cover REMOVE
HOBBS RECORD
POH IN-AIRCRAFT
UFS clip board and keys IN-AIRCRAFT
Check List IN-AIRCRAFT
Air Worthiness Certificate IN-AIRCRAFT
Registration IN-AIRCRAFT
GPS Reference Guide IN-AIRCRAFT
Weight and Balance CHECKED
Parking Brake SET
Control Lock REMOVE
Magneto Switch OFF
Avionics Switches (2) OFF
Circuit Breakers IN

POWER

Master Switch (Batt) ON
Fuel Qty (R & L) CHECK
Avionics Switches (2) ON
Avionics Fan (If Installed) VERIFY ON
GPS data base VERIFY CURRENT
Avionics Switches (2) OFF
Flaps (Extend One Notch at a Time) VERIFY
Beacon ON
Navigation Lights ON
Taxi/Landing Lights ON
Pitot Heat ON

VERIFY LIGHTS, PITOT HEAT, STALL WARNING

POWER - CONTINUED

Navigation Lights OFF
Taxi/Landing Lights OFF
Pitot Heat OFF
Master Switch OFF
Elevator Trim Control TAKEOFF
Fuel Selector Valve BOTH
Alternate Static Air Valve ON / OFF
Fire Extinguisher CHECK

LEFT Fuselage

Left Tire CHECK
Left Brake SECURE/WEAR INDICATOR
Left Brake Line NO LEAKS
Left Main Gear Strut SECURE
Baggage Door CLOSED
Antennas SECURE
Body STRAIGHT

LEFT ELEVATOR

Control Surface CHECK
Counterbalance Weight SECURE
Static Wicks (If Installed) SECURE

RUDDER

Tail Tiedown REMOVE
Antennas SECURE
Static Wicks (If Installed) SECURE

RIGHT ELEVATOR

Control Surface CHECK
Elevator Trim Tab CHECK
Static Wicks (If Installed) SECURE
Counterbalance Weight SECURE

Right Fuselage

Body STRAIGHT
Right Main Gear Strut SECURE
Right Tire CHECK
Right Brake SECURE/WEAR INDICATOR
Right Brake Line NO LEAKS

RIGHT WING

Flap CHECK
Aileron CHECK
Wing Tip CHECK
Leading Edge CHECK
Wing Support Strut SECURE
Fuel Tank Vent (if Installed) CHECK POSITION
Tiedown REMOVE
Fuel Quantity CHECK VISUALLY
Fuel Filler Cap SECURE
Fuel Drain Sumps DRAIN

NOSE

Sump Fuel Selector (belly) DRAIN
Static Source (If Installed) CHECK
Engine Oil Dipstick/Filler Cap CHECK
Fuel Strainer DRAIN
Engine Cooling Air Inlets CLEAR
Prop and Spinner CHECK
Air Filter CHECK
Nosewheel Strut and Tire CHECK
Static Source CHECK
Windscreen CHECK (CLEAN)

LEFT WING

Leading Edge CHECK
Wing Support Strut SECURE
Pitot Tube CHECK
Fuel Quantity CHECK VISUALLY
Fuel Filler Cap SECURE
Fuel Tank Vent CHECK POSITION
Tiedown REMOVE
Wing Tip CHECK
Aileron CHECK
Flap CHECK
Fuel Drain Sumps DRAIN

N13CB - C172P / TAA

EMERGENCY PROCEDURES

ENGINE FIRE DURING START ON GROUND

Cranking CONTINUE

IF ENGINE STARTS

Power 1700 RPM (for a few mins)

Engine SHUTDOWN (inspect for damage)

IF ENGINE FAILS TO START

Throttle FULL

Mixture IDLE CUTOFF

Cranking CONTINUE

Fire Extinguisher OBTAIN

Engine SECURE

Master OFF

Ignition OFF

Fuel Selector Valve OFF

Fire EXTINGUISH

Fire Damage INSPECT

ENGINE POWER LOSS DURING TAKEOFF RUN

Throttle IDLE

Brakes APPLY

Flaps RETRACT

Mixture IDLE CUTOFF

Ignition OFF

Master OFF

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

Airspeed Flaps Up 65 KIAS

Airspeed Flaps Down 60 KIAS

Mixture IDLE CUTOFF

Fuel Selector Valve OFF

Ignition OFF

Flaps AS REQ (full recommended)

Master Switch OFF

ENGINE FAILURE DURING FLIGHT

RESTART

Airspeed 65 KIAS

Carb Heat ON

Fuel Selector Valve BOTH

Mixture RICH

Ignition BOTH

Primer IN AND LOCKED

FORCED LANDING WITHOUT POWER

Seat Backs MOST UPRIGHT POSITION

Seat and Seat Belts SECURE

Airspeed Flaps Up 65 KIAS

Airspeed Flaps Down 60 KIAS

Mixture IDLE CUTOFF

Fuel Selector Valve OFF

Ignition Switch OFF

Flaps AS REQ (full recommended)

Master Switch OFF

Doors UNLATCH PRIOR TO TOUCHDOWN

Touchdown SLIGHTLY TAIL LOW

Brakes APPLY HEAVILY

ENGINE FIRE IN FLIGHT

Mixture IDLE CUTOFF

Fuel Selector Valve OFF

Master OFF

Cabin HT and Cabin AIR OFF (push in)

Airspeed 100 KIAS

(if fire is not extinguished, increase glide speed to find an airspeed within airspeed limitations, which will provide an incombustible mixture)

Forced Landing EXECUTE

(refer to power off landing)

LOSS OF OIL PRESSURE/HIGH OIL TEMP

Land as soon as possible and investigate the cause. Prepare for power off landing.

AMMETER SHOWS EXCESSIVE RATE OF CHARGE

Alternator OFF

Alternator Circuit Breaker PULL

Nonessential Electrical Equipment OFF

Flight TERMINATE

(as soon as practical)

LOW VOLTS ANNUNCIATOR

Avionics OFF

Alternator Circuit Breaker CHECK IN

Master OFF (BOTH SIDES)

Master ON (BOTH SIDES)

Low Voltage Lights CHECK OFF

Avionics ON

LOW VOLTS ANNUNCIATOR REMAINS ON

Alternator OFF

Nonessential Radio & Electrical Equipment

..... OFF

Flight TERMINATE

(as soon as practical)

SPIN RECOVERY

Throttle IDLE

Ailerons NEUTRAL

Rudder FULL OPPOSITE
to direction of rotation

Control Wheel BRISKLY FORWARD
(to break stall)

Recover NEUTRALIZE RUDDER,
RECOVER FROM DIVE