

## C-172N Preflight Inspection

### COCKPIT

- Note and record Time
- Required Documents - CHECKED
  - Airworthiness
  - Registration
  - Operating Handbook
  - Weight and Balance
- Control Lock – REMOVE & STOW
- Ignition Switch – OFF
- Avionics Master – OFF
- Electrical Switches – OFF
- Master Switch – ON
- Lights/Pitot heat – ON & CHECKED
- Lights/Pitot heat – OFF
- Flaps – DOWN
- Fuel Quantity Indicators – CHECK
- Master Switch – OFF

### FUSELAGE LEFT SIDE

- Baggage Door – CHECK/LOCK
- All Antennas - CHECK

### EMPENNAGE

- Control Surfaces – CHECK
- Tail Tie-Down – REMOVE

### FUSELAGE RIGHT SIDE

- ELT Antenna - CHECK

### RIGHT WING

- Flap Condition – CHECK
- Aileron Condition – CHECK
- Wing Tip – CHECK

- Strut – CHECK
- Wing Tie-Down – REMOVE
- Main Gear – CHECK
- Fuel Tank Sump – DRAIN & CHECK
- Fuel Tank – CHECK QUANTITY & CAP

### NOSE

- Engine Oil Level – CHECK (4-6 Qts.)
- Strainer Drain – DRAIN & CHECK
- Air Inlets - UNOBSTRUCTED
- Propeller and Spinner – CHECK
- Landing Light – CHECK
- Carburetor Air Filter – CHECK
- Nose Gear – CHECK
- Breather Tube – CHECK
- Static Source Opening – CHECK

### LEFT WING

- Fuel Tank – CHECK QUANTITY & CAP
- Pitot Tube – REMOVE cover/CHECK
- Fuel Vent – CHECK
- Stall Warning – CHECK/TEST
- Wing Tie-Down & Chocks – REMOVE
- Strut – CHECK
- Wing Tip – CHECK
- Aileron Condition – CHECK
- Flap Condition – CHECK
- Main Gear – CHECK
- Fuel Tank Sump – DRAIN & CHECK

## C-172N EMERGENCY CHECKLISTS

**Items in bold should be memorized**

### ENGINE FAILURE DURING FLIGHT

- Airspeed – 65 KIAS**
- Fuel Selector - BOTH
- Fuel Shutoff Valve - ON
- Mixture – FULL RICH
- Carburetor Heat – ON
- Ignition Switch – BOTH (START if prop is stopped) if restart unsuccessful make forced landing

### FORCED LANDING / SECURING CHECK

- Emergency – DECLARE (If time permits)**
- Fuel Shutoff Valve - OFF**
- Mixture – IDLE CUT-OFF**
- Ignition Switch – OFF**
- Wing Flaps – AS REQUIRED**

-----Landing Assured-----

- Master Switch – OFF
- Doors – UNLATCH
- Touch Down – SLIGHTLY TAIL LOW
- Brakes – APPLY HEAVILY

### EMERGENCY DESCENT

- Throttle – IDLE
- Airspeed – 100 to Vne

### ENGINE FIRE IN-FLIGHT

- Mixture – IDLE CUT-OFF**
- Fuel Shutoff Valve - OFF**
- Master Switch – OFF**
- Cabin Heat & Air – OFF**
- Emergency Descent – EXECUTE**
- Forced Landing Check – EXECUTE**

### ELECTRICAL FIRE IN FLIGHT

- Master Switch – OFF**
- Vents/Cabin Air/Heat – CLOSED
- Fire Extinguisher – AS REQUIRED
- Avionics Master – OFF
- Electrical Switches – OFF
- Vents/Cabin Air/Heat – AS REQUIRED
- Master Switch – ON
- Circuit Breakers - CHECK
- Radio Switches – OFF
- Avionics Master – ON
- Radios & Electrical – ON

## **C-172N IN-FLIGHT CHECKLISTS**

### **BEFORE STARTING ENGINE**

- Preflight Inspection – COMPLETE
- Passenger Brief – COMPLETE
- Seat Belts – FASTENED
- Brakes – SET
- Radios/Electrical Equipment – OFF
- Avionics Master – OFF
- Circuit Breakers – CHECK IN
- Fuel Selector – BOTH
- Fuel Shutoff Valve - ON

### **STARTING ENGINE**

- Mixture – RICH
- Carburetor Heat – COLD
- Prime – AS REQUIRED (max 3 strokes)
- Throttle – OPEN ½ INCH
- Propeller Area – CLEAR
- Master Switch – ON
- Beacon – ON
- Ignition Switch – START

### **AFTER START**

- Throttle – ADJUST (1000 RPM)
- Oil Pressure – CHECK
- Flaps – UP
- Radios/Electrical Equipment – ON
- Flight Instruments – SET

### **BEFORE TAXI**

- Radios – CHECK
- Brakes – CHECK

### **RUN UP**

- Brakes – SET
- Flight Controls – FREE and CORRECT
- Mixture – RICH (below 3000')
- Throttle – 1700 RPM
  - Magnetos – CHECK (125 total/50 differential)
  - Carburetor Heat – CHECK
  - Engine Instruments – CHECK
  - Ammeter – CHECK
  - Alternator Test - COMPLETED
  - Suction Gage - CHECK
- Throttle – IDLE CHECK
- Throttle – 1000 RPM
- Throttle Friction Lock – ADJUST
- Radios – SET
- Flight Instruments – SET
- Flaps – SET
- Elevator Trim – SET TO TAKEOFF
- Cabin Doors/Windows – SECURE

### **BEFORE TAKEOFF**

- Lights – ON (as required)
- Transponder – SET

### **AFTER TAKEOFF**

- Flaps – UP
- Lights – AS REQUIRED
- Mixture – LEAN (above 3000')

### **APPROACH**

- Approach Briefing – COMPLETE
- Seat Belts – FASTENED
- Mixture – RICH
- Fuel Selector – BOTH
- Lights – AS REQUIRED

### **LANDING**

- Carburetor Heat – ON
- Flaps - SET

### **AFTER LANDING**

- Flaps – UP
- Carburetor Heat – COLD
- Transponder – STBY
- Lights – AS REQUIRED
- Trim – SET TO TAKEOFF

### **SHUTDOWN**

- Throttle – 1000 RPM
- Avionics Master – OFF
- Mixture – IDLE CUT-OFF
- Ignition Switch – OFF
- Master Switch – OFF
- Lights – OFF

### **SECURING AIRPLANE**

- Fuel Selector – LEFT or RIGHT
- Control Lock – INSTALL
- Tie Downs/Chocks – SET
- Hobbs – RECORDED

### **PRE-MANEUVER**

- Fuel Selector – BOTH
- Fuel Shutoff – ON
- Mixture – RICH
- Lights – ON
- Magnetos – BOTH

### **Local Radio Frequencies**

- |                       |                       |
|-----------------------|-----------------------|
| FLD ASOS – 134.00     | OSH VORTAC – 111.8    |
| FLD CTAF – 123.05     | FLD ILS/DME – 108.3   |
| MKE Approach – 127.00 | FLD RCO (GB) – 122.50 |