

# C-172 N75972

## PRE-FLIGHT CHECKLIST



### CABIN

Hobbs/Tach Time .....RECORD  
AROW Documents .....ON BOARD  
Control Wheel Lock.....REMOVE  
Ignition Switch.....OFF  
Avionics Power Switches.....OFF  
Master Switch.....ON  
Wing Flaps.....EXTEND  
Fuel Quantity Indicators...CHECK QUANTITY  
Pitot Heat.....CHECK IF IFR FLIGHT  
Aircraft lights lights.....ON AND CHECK  
Aircraft lights..... OFF  
Master Switch.....OFF  
Fuel Selector valve.....BOTH  
Alternate Static Air .....CHECK – ON/OFF

### LEFT WING

Fuel sump .....CHECK FOR WATER  
Fuel Quantity .....20 gal max.....VERIFY QTY  
Fuel Cap..... SECURE  
Pitot Tube ..... CHECK CLEAR  
Fuel Tank Vent.....CHECK CLEAR  
Stall Warning OPENING.....CHECK CLEAR  
Wing Leading Edge.....CHECK CONDITION  
Wingtip.....CHECK CONDITION  
Aileron.....HARDWARE SECURE  
Wing Flap.....HARDWARE SECURE  
Main Wheel Tire.....INFLATION & TREAD  
Brake Assembly...CONDITION & NO LEAKS  
Baggage Door .....LOCKED

### TAIL

Elevator.....CHECK CABLE & HARDWARE  
Rudder .....CHECK CABLE& HARDWARE  
Trim Tab.....CHECK HARDWARE SECURE

### RIGHT WING

Wing Flap.....CONDITION & HARDWARE  
Aileron.....MOVES FREELY & HARDWARE  
Wingtip.....CHECK CONDITION  
Wing Leading Edge.....CHECK CONDITION  
Main Wheel Tire..... INFLATION & TREAD  
Brake Assembly... CONDITION & NO LEAKS  
Fuel Quantity .....20 gal max.....VERIFY QTY  
Fuel Cap.....SECURE

### NOSE

Oil level.....5 QTS MIN...6 QTS MAX  
Fuel Strainer in cowl... CHECK FOR WATER  
Propeller..... CHECK for NICKS  
Spinner..... SCREWS  
Engine Cooling Air Inlets.....CHECK CLEAR  
Alternator Belt.....CHECK FOR TIGHT  
Landing light.....CHECK CONDITION  
Carburetor Air Filter.....CHECK CLEAR  
Nose Wheel Strut & Tire ...CHECK INFLATION  
Static vent left side..... CHECK CLEAR

### BEFORE ENGINE START

Preflight .....COMPLETE  
Passenger Briefing.....COMPLETE  
Seat belts and seats .....SECURE  
Controls free & correct.....CHECK  
Circuit breakers.....CHECK IN  
Electrical equipment.....OFF  
Elevator trim.....SET  
Fuel tank selector.....BOTH

### ENGINE START

Brakes.....SET  
Mixture.....RICH  
Open throttle.....1/4"  
Carb. Heat.....OFF  
Flashing beacon.....ON  
Master switch.....ON  
Prime ..... 2 Strokes If Cold  
Engage starter.....CLEAR  
Oil pressure...CHECK for PRESSURE RISE  
Avionics power switches.....ON

### BEFORE TAXI

Flaps.....RETRACT  
Radios.....SET  
Transponder set to.....1200 ALT  
AWOS/ATIS..... COPY  
Altimeter w/in 75 ft.) .....SET to Baro  
Heading indicator .....SET to COMPASS  
Mixture.....LEAN 1"

### TAXI CHECK

Brakes.....TEST  
Heading Indicator..... ACTIVE  
Turn Coordinator.....ACTIVE  
Attitude Indicator.....STATIC

### RUN UP CHECK

Brakes.....SET  
Seatbelts, seats and door.....SECURE  
Flight instruments.....GPS flight plan..SET  
Heading Indicator... Set to Mag. Compass  
Primer..... LOCKED  
Mixture.....RICH  
Throttle.....1700 RPM  
Mags...CHECK (125 RPM max drop 50 diff)  
Carb heat.....ON THEN OFF  
Suction.....CHECK (4.8 – 5.1 Hg)  
Oil temp.....CHECK  
Oil pressure.....CHECK  
Fuel Quantity ..... CHECK  
Ammeter.....CHECK for OUTPUT  
Throttle.....IDLE then 800 RPM  
Pitot heat .....CONSIDER

### TAKE OFF

Landing light.....ON  
Flaps.....SET as REQ'D  
Time.....Record as REQ'D

### SHORT – SOFT FIELD TAKE OFF

Flaps.....Short – 0° Soft - 10°  
Rotate at.....55 KTS  
V<sub>x</sub> .....59 KTS  
V<sub>y</sub> .....73 KTS  
  
Climb out at 56 KTS until clear of obstacle

### CRUISE

Landing light..... OFF  
Power..... SET  
Elevator Trim.....SET  
Mixture.....LEAN ABOVE 3000' MSL

### DESCENT FOR ARRIVAL

Landing light..... ON  
Mixture.....RICH  
Fuel tank selector..... BOTH  
AWOS/ATIS.....COPY

### BEFORE LANDING

Carb heat..... ON  
Power ..... REDUCE  
Mixture.....RICH  
Flaps .....SET  
Fuel tank selector.....BOTH  
60-65 KTS w/full flaps on final

### AFTER LANDING

Landing light.....OFF  
Carb heat ..... OFF  
Mixture.....Lean AS REQ'D  
Flaps.....RETRACT

### ABBREVIATED TAKEOFF

Landing light .....ON  
Carb heat .....OFF  
Mixture.....RICH  
Elevator trim .....ADJUST

### SHUT DOWN

Electrical switches.....OFF  
Throttle.....800 RPM  
Magneto grounding check.....OFF then R  
Mixture.....IDLE CUT-OFF  
Master switch.....OFF  
Magneto switch.....OFF

**V Speeds (KTS)** V<sub>so</sub> 44, V<sub>r</sub> 55, V<sub>s1</sub> 56,  
V<sub>x</sub> 59, V<sub>g</sub> 65, V<sub>y</sub> 73, V<sub>fe</sub> 85, V<sub>a</sub> 80-97  
V<sub>no</sub> 128, V<sub>ne</sub> 160 **X-Wind limit 15 Kts**

