



# Aircraft Checklist

## Cessna 172P

This is an abbreviated checklist. Most explanatory items, notes cautions and warnings have been omitted for brevity. Procedures in red/bold text of this checklist should be committed to memory.

All performance speeds should be computed prior to flight using the Aircraft Owner's Manual. This checklist is for training purposes only; users must be familiar with and operate in accordance with the official Aircraft Owner's Manual.

# Cessna 172P Preflight Checklist

## CABIN PREFLIGHT INSPECTION

### REMOVE GUST LOCKS & PITOT COVER IF INSTALLED

1. Fuel Quantity ..... CHECK
2. Inspections ..... CHECK DATES and TIMES
3. Weight and CG ..... WITHIN LIMITS
4. Documents ..... CHECK
5. Controls ..... FREE AND CORRECT
6. Ignition Switch ..... OFF
7. Avionics Switch ..... OFF
8. Master Switch ..... ON
9. Fuel Quantity Indicators ..... CHECK
10. Low Vacuum Warning Light (if installed) ..... CHECK ON
11. Flaps ..... EXTEND
12. Interior and Exterior Lights ..... CHECK
13. Pitot Heat ..... CHECK then OFF
14. Master Switch ..... OFF
15. Fuel Selector Valve ..... BOTH
16. Fire Extinguisher ..... CHECK CHARGE

## **EXTERIOR PREFLIGHT INSPECTION**

### **Empennage**

1. Antennas ..... CHECK
2. Baggage Door ..... LOCKED
3. Left Side of Fuselage ..... CHECK
4. Control Surfaces..... CHECK
5. Tail Tie-down..... REMOVE
6. Beacon/Position Light..... CHECK
7. Right Side of Fuselage ..... CHECK

### **Right Wing**

1. Flap, Aileron and Hinges ..... CHECK
2. Wingtip Lights ..... CHECK
3. Wing..... CHECK
4. Wing Tie-down ..... REMOVE
5. Wing Root Vent ..... CLEAR
6. Wheel Assembly ..... CHECK
7. Fuel Tank Sump..... (1) DRAIN and CHECK
8. Fuel Quantity ..... CHECK/ CAP SECURE

## **Nose**

1. Fuel Line Quick Drain .....DRAIN and CHECK
2. Oil Quantity ..... (4-6 quarts) CHECK
3. Cowling, Propeller and Spinner..... CHECK
4. Air Inlets ..... CLEAR
5. Alternator Belt ..... CHECK
6. Carburetor Air Filter ..... CHECK
7. Nose Wheel Assembly..... CHECK
8. Static Port..... CHECK
9. Windshield .....CLEAN and CHECK

## **Left Wing**

1. Fuel Tank Sump.....(1) DRAIN and CHECK
2. Fuel Quantity .....CHECK / CAP SECURE
3. Wing Root Vent ..... CHECK
4. Pitot Tube..... CHECK
5. Stall Warning Opening .....CHECK for BLOCKAGE
6. Wing Tie-down .....REMOVE
7. Fuel Tank Vent .....CHECK for BLOCKAGE
8. Wing..... CHECK
9. Wingtip Lights ..... CHECK
10. Flap and Aileron ..... CHECK
11. Wheel Assembly ..... CHECK

## Before Starting Engine

1. Preflight Inspection..... COMPLETE
2. Passenger Briefing ..... COMPLETE
3. Seat Belts/ Shoulder Harness .....ADJUSTED/ SECURE
4. Fuel Selector Valve.....BOTH
5. Circuit Breakers .....CHECK IN
6. Radios and Electrical Equipment..... OFF
7. Brakes ..... TEST and SET

## V Speeds

V <sub>so</sub> .....	33 KIAS
V <sub>s</sub> .....	44 KIAS
V <sub>r</sub> .....	55 KIAS
V <sub>x</sub> .....Sea Level.....	60 KIAS
10,000 MSL.....	65 KIAS
V <sub>y</sub> .....Sea Level.....	76 KIAS
10,000 MSL.....	71 KIAS
V <sub>fe</sub> ..... 10°.....	110 KIAS
10°- 30°.....	85 KIAS
V <sub>a</sub> .....1600Lbs.....	82 KIAS
2000Lbs.....	92 KIAS
2400Lbs.....	99 KIAS
V <sub>no</sub> .....	127 KIAS
V <sub>ne</sub> .....	158 KIAS

## Starting Engine

1. Mixture..... RICH
2. Throttle..... OPEN 1/8 INCH
3. Carburetor Heat..... OFF
4. Beacon..... ON
5. Prime ..... AS REQUIRED/ IN and LOCKED
6. Battery Switch..... ON
7. Propeller Area ..... CLEAR
8. Ignition..... ENGAGE

***Do not crank more than 10 seconds/Allow 20 seconds to cool\****

9. Throttle..... 1000 RPM
10. Oil Pressure..... INDICATING GREEN
11. Mixture..... LEAN for TAXI
12. Alternator ..... ON
13. Ammeter ..... CHECK
14. Flaps ..... RETRACT
15. Navigation Lights..... AS REQUIRED
16. Avionics Master Switch..... ON
17. Transponder ..... STANDBY/1200
18. Heading Indicator..... SET
19. ASOS/ATIS ..... OBTAIN
20. Altimeter ..... SET
21. Advisory/Departure & Taxi Clearance ..... CONTACT

***\*Refer to POH if engine does not start after 3 attempts***

## Taxi

1. Brakes ..... CHECK
2. Instrument Cross-Check..... CHECK

## Before Takeoff

1. Nose Wheel..... STRAIGHT
2. Brakes ..... SET and HOLD
3. Flight Controls ..... FREE and CORRECT
4. Primer..... IN/LOCKED
5. Fuel Selector Valve..... BOTH
6. Mixture..... RICH
7. Throttle..... 1700 RPM
8. Mixture..... SET for DENSITY ALTITUDE
9. Carburetor Heat..... CHECK DROP then OFF
10. Magnetos..... (125 max drop, 50 diff.) CHECK
11. Engine Gauges and Ammeter ..... CHECK
12. Suction ..... GREEN ARC
13. Throttle..... CHECK IDLE
14. Throttle..... 1000 RPM
15. Throttle Friction Lock..... ADJUST
16. Communication/Navigation Radios..... SET
17. Flight Instruments ..... SET and CHECKED
18. Fuel Quantities ..... CHECKED
19. Trim..... SET for TAKEOFF
20. Flaps..... SET for TAKEOFF
21. Cabin Doors & Windows..... CLOSED and LATCHED
22. Seats ..... ADJUSTED/ LOCKED
23. Departure Briefing ..... CLEARANCE / EMERG. PLAN
24. Advisory/ Tower ..... CONTACT

## Cleared For Takeoff

1. Lights ..... AS REQUIRED
2. Transponder ..... ALTITUDE
3. Brakes ..... RELEASE
4. Traffic ..... CHECK

## Normal Takeoff

1. Wing Flaps ..... RETRACTED
2. Carburetor Heat ..... COLD
3. Throttle ..... FULL OPEN
4. Elevator Control ..... LIFT NOSE AT 55 KIAS
5. Climb Speed ..... 70-80 KIAS

## Short Field Takeoff

1. Wing Flaps ..... 10°
2. Carburetor Heat ..... COLD
3. Brakes ..... HOLD
4. Throttle ..... FULL OPEN
5. Engine Gauges ..... GREEN
6. Brakes ..... RELEASE
7. Elevator Control ..... SLIGHTLY TAIL LOW
8. Obstacle Clearance Speed ..... 56 KIAS

### *After Clearing Obstacle:*

9. Airspeed ..... ACCELERATE FOR NORMAL CLIMB
10. Wing Flaps ..... RETRACT





## **Soft Field Takeoff**

1. Wing Flaps ..... 10°\*
2. Carburetor Heat.....COLD
3. Elevator Control..... TAIL LOW
4. Throttle..... FULL OPEN
5. Accelerate ..... WHILE IN GROUND EFFECT
6. Climb Speed..... 60 KIAS

\*Use of flaps not recommended for take-off over an obstacle in high density altitude conditions.

## **Enroute Climb**

1. Airspeed .....70-85 KIAS
2. Throttle..... FULL OPEN
3. Mixture..... AS REQUIRED

## **Cruise**

1. Power .....SET for CRUISE
2. Trim..... AS REQUIRED
3. Mixture..... LEAN for CRUISE
4. Landing Light..... OFF
5. Heading Indicator..... CROSS-CHECK



## **Descent**

1. ASOS/ATIS ..... OBTAIN
2. Altimeter ..... SET
3. Arrival/Passenger Briefing..... COMPLETE
4. Mixture..... ADJUST AS REQUIRED
5. Power ..... AS REQUIRED
6. Carburetor Heat..... AS REQUIRED
7. Landing Light..... ON
8. Fuel Selector ..... BOTH

## **Before Landing**

1. Seats, Belts and Shoulder Harnesses .... ADJUST/LOCKED
2. Mixture..... AS REQUIRED

## **Normal Landing**

1. Power ..... AS REQUIRED
2. Airspeed .....(Flaps UP) 70 KIAS
3. Wing Flaps ..... AS REQUIRED
4. Airspeed ..... (Flaps DOWN) 60 KIAS
5. Touchdown ..... MAIN WHEELS FIRST
6. Brakes ..... APPLY AS NECESSARY

## **Short Field Landing**

1. Power ..... AS REQUIRED
2. Wing Flaps ..... FULL RECOMMENDED
3. Airspeed ..... 61 KIAS
4. Touchdown ..... MAIN WHEELS FIRST
5. Wing Flaps ..... RETRACT
6. Brakes ..... APPLY AS NECESSARY

## **Soft Field Landing**

1. Power ..... AS REQUIRED
2. Wing Flaps ..... FULL RECOMMENDED
3. Airspeed ..... 65 KIAS
4. Touchdown ..... MAIN WHEELS FIRST
5. Landing Roll ..... TAIL LOW

## **Go Around (Balked Landing)**

1. Throttle..... FULL OPEN
2. Carburetor Heat.....COLD
3. Wing Flaps ..... RETRACT TO 20°
4. Climb Speed..... 55 KIAS
5. Wing Flaps .....10° (until obstacles cleared)
6. Wing Flaps ..... (60 KIAS) RETRACT

## After Landing / Clear Of Runway

1. Flaps ..... UP
2. Carburetor Heat..... OFF
3. Mixture.....LEAN for TAXI
4. Landing Light..... OFF
5. Strobe Lights ..... OFF
6. Transponder .....STANDBY
7. Taxi Clearance / Advisory .....CONTACT

## Securing Airplane

1. Radios & Electrical Equipment ..... OFF
2. Throttle..... IDLE
3. Magnetos.....CHECK GROUNDING
4. Throttle..... 1000 RPM
5. Mixture..... IDLE CUT-OFF
6. Ignition ..... OFF
7. Master Switch ..... OFF
8. Beacon..... OFF
9. Fuel Selector .....LEFT/RIGHT
10. Control Lock .....INSTALL
11. Flight Information..... RECORD
12. Pitot Tube Cover.....INSTALL
13. Wheel Chocks & Tie Downs ..... SECURE
14. Post Flight Walk-Around..... COMPLETE
15. Doors..... LOCKED

## ABNORMAL PROCEDURES

### Flooded Start

1. Mixture..... IDLE CUT-OFF
2. Throttle..... FULL OPEN

**Proceed with item 3 on “Starting Engine” checklist**

### Ammeter Shows Excessive Rate Of Charge

1. Alternator ..... OFF
2. Alternator Circuit Breaker ..... PULL
3. Nonessential Electrical Equipment ..... OFF
4. Flight ..... LAND AS SOON AS PRACTICAL

### Low Voltage Light Illuminates In Flight

1. Radios ..... OFF
2. Alternator Circuit Breaker ..... CHECK IN
3. Alternator Switch ..... OFF then ON
4. Low Voltage Light ..... CHECK OFF
5. Radios ..... ON

#### ***If Low Voltage Light Illuminates Again:***

6. Alternator ..... OFF
7. Nonessential Electrical Equipment ..... OFF
8. Flight ..... TERMINATE

## Landing With A Flat Main Tire

1. Flaps ..... AS REQUIRED
2. Approach ..... NORMAL
3. Touchdown ..... GOOD TIRE FIRST
4. Directional Control ..... MAINTAIN  
(using brake on good tire)

## Landing With A Flat Nose Tire

1. Flaps ..... AS REQUIRED
2. Approach ..... NORMAL
3. Touchdown ..... MAIN GEAR FIRST
4. Elevator ..... AS NECESSARY TO DELAY  
NOSE GEAR CONTACT

**Maintain full aft elevator pressure throughout ground roll**

# EMERGENCY CHECKLIST

This is an operational checklist. Procedures in red/bold text in this section should be committed to memory. The official aircraft AFM contains additional procedures and expanded procedures not listed in this checklist. Users should be familiar with all procedures

## Airspeeds For Emergency Operation

Engine Failure After Takeoff..... 65 KIAS  
Maximum Glide (2300 Lbs) ..... 65 KIAS

### *Landing Without Engine Power:*

Flaps Up..... 65 KIAS  
Flaps Down ..... 60 KIAS

## Engine Failure Immediately After Takeoff

1. Airspeed .....(Flaps Up) .....65 KIAS  
(Flaps Down).....60 KIAS
2. Mixture..... IDLE CUT-OFF
3. Fuel Selector Valve .....OFF
4. Ignition Switch .....OFF
5. Flaps ..... REQUIRED
6. Master Switch.....OFF
7. Land .....STRAIGHT AHEAD

## Engine Failure / Power Loss During Flight

1. Airspeed .....65 KIAS
2. Carburetor Heat.....ON
3. Fuel Shutoff Valve.....BOTH
4. Mixture..... RICH
5. Throttle ..... OPEN
6. Magnetos ..... CHECK BOTH
7. Primer ..... IN and LOCKED

## Emergency Landing Without Engine Power

1. Airspeed .....(flaps down) .....60 KIAS
2. Landing Site.....DETERMINE
3. Seats, Seatbelts, Shoulder Harnesses ..... SECURE
4. Mixture..... IDLE CUT-OFF
5. Fuel Selector Valve..... OFF
6. Ignition Switch..... OFF
7. Flaps ..... AS REQUIRED
8. Master Switch ..... OFF
9. Doors ..... UNLATCH
10. Touchdown .....SLIGHTLY TAIL LOW
11. Brakes ..... APPLY AS NECESSARY



## Precautionary Landing With Engine Power

1. Seats, Seatbelts, Shoulder Harness ..... SECURE
2. Airspeed ..... 60 KIAS
3. Selected Field..... FLY OVER
4. Flaps ..... AS REQUIRED
5. Airspeed ..... 60 KIAS
6. Master Switch ..... OFF
7. Ignition ..... OFF
8. Doors ..... UNLATCH
9. Touchdown ..... SLIGHTLY TAIL LOW
10. Brakes ..... APPLY

## Fire During Engine Start

- 1. Cranking ..... CONTINUE**

### *If Engine Starts:*

2. Power ..... 1700 RPM
3. Engine ..... SHUTDOWN

### *If Engine Fails to Start:*

- 4. Cranking ..... CONTINUE**
- 5. Throttle ..... FULL OPEN**
- 6. Mixture ..... IDLE CUT-OFF**
- 7. Master Switch ..... OFF**
- 8. Ignition Switch ..... OFF**
- 9. Fuel Selector Valve ..... OFF**
- 10. Fire Extinguisher ..... OBTAIN**

## Engine Fire In Flight

1. Mixture..... **IDLE CUT-OFF**
2. Fuel Selector Valve ..... **OFF**
3. Master Switch..... **OFF**
4. Cabin Heat and Air..... **CLOSED**
5. Wing Root Vents..... **OPEN**
6. Airspeed ..... **100 KIAS**
7. Forced Landing ..... **EXECUTE**

## Electrical Fire In Flight

1. Master Switch..... **OFF**
2. Vents, Cabin Heat and Air ..... **CLOSED**
3. All Electrical Switches (except ignition) ..... **OFF**
5. Fire Extinguisher ..... **AS APPROPRIATE**

### *If Fire Appears Out:*

4. Master Switch ..... **ON**
5. Circuit Breakers ..... **CHECK (do not rest)**
6. Avionics Master Switch ..... **ON**
7. Radio and Electrical Switches ..... **(one at a time) ON**

## Cabin Fire

1. Master Switch..... **OFF**
2. Vents, Cabin Heat and Air ..... **CLOSED**
3. Fire Extinguisher (if available) ..... **ACTIVATE**
4. Forced Landing ..... **EXECUTE**

## Wing Fire

1. Navigation Light Switch.....OFF
2. Strobe Light Switch .....OFF
3. Pitot Heat Switch.....OFF

**Perform A Side Slip To Keep The Flames Away From The Fuel Tank And Cabin, And Land As Soon As Possible With Flaps Retracted.**

Should any mechanical difficulty, accident, incident or delay occur, please contact a Leading Edge Aviation representative before continuing any flight. **DO NOT FLY** any aircraft that may have been damaged, until it has been inspected and certified airworthy by a certified mechanic. Call Leading Edge Aviation 435-752-5955.

## Passenger/Crew Briefing Checklist

### Before Engine Start:

1. Normal and emergency exit procedures
2. Seatbelt operations
3. Fire extinguisher location & operations
4. Identify PIC for the flight
5. Positive exchange of flight controls process

### Before Take-Off:

1. Verify runway in use
2. Type of take-off
3. Direction of departure (VFR)
4. Departure clearance (IFR)
5. Emergency plan
  - a. Emergency on runway
  - b. Emergency after liftoff
  - c. Emergency at altitude
  - d. Flying/non-flying pilot roles during emergency operations

### Approach:

1. Verify runway in use
2. Type of landing
3. Expected crosswind direction/intensity
4. Traffic pattern (VFR)
5. Instrument approach briefing (IFR)

### Emergency Transponder Codes:

Air Piracy: ..... 7500  
Lost Communication: ..... 7600  
General Emergency: ..... 7700

### Emergency 2-Way Communication Frequency:

Guard Frequency: ..... 121.5