



Aircraft Checklist

Cessna 182-P

This is an abbreviated checklist. Most explanatory items, notes cautions and warnings have been omitted for brevity. Procedures in red/bold in 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 182-P 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 Master Switch..... OFF
8. Master Switch ON
9. Avionics Switch ON
10. Avionics Cooling Fan CHECK ON
11. Avionics Switch..... OFF
12. Fuel Quantity Indicators CHECK
13. Flaps EXTEND
14. Interior and Exterior lights..... CHECK
15. Master Switch OFF
16. Cowl Flaps OPEN
17. Fuel Selector Valve..... BOTH
18. Fire Extinguisher.....CHECK CHARGE

Exterior Preflight Inspection

Empennage

1. Antennas CHECK
2. Left Side Of Fuselage CHECK
3. Baggage Door CLOSED/LOCKED
4. Horizontal stabilizer..... CHECK
5. Tail Tie-down..... REMOVE
6. Vertical Stabilizer And Rudder..... CHECK
7. Right Side Of Fuselage CHECK

Right Wing

1. Flap, Aileron And Hinges CHECK
2. Position Light..... CHECK
3. Wing..... CHECK
4. Wing Root Vent CHECK
5. Fuel Quantity CHECK / CAP SECURE
6. Fuel System Vents OPEN
7. Wing Tie-down REMOVE
8. Wheel Assembly CHECK
9. Fuel Strainers DRAIN AND CHECK
10. Inspection Covers..... SECURE

Nose

1. Static Ports CHECK
2. Engine Cowling CHECK/SECURE
3. Carburetor Air Filter CHECK
4. Air Inlets/Oil Cooler CHECK
5. Nose Wheel Assembly CHECK
6. Engine Oil (9-12 Quarts) CHECK
7. Fuel Strainer Knob DRAIN/CHECK
8. Tow Bar REMOVE / SECURE
9. Windshield. CLEAN AND CHECK
10. Landing Light..... CHECK

Left Wing

1. Inspection Covers..... SECURE
2. Fuel QuantityCHECK / CAP SECURE
3. Wing Root Vents..... CHECK
4. Wheel Assembly CHECK
5. Wing Tie-downREMOVE
6. Fuel System Vents OPEN
7. Stall Warning Tab CHECK
8. Pitot Tube / Static Port..... CHECK / CLEAR
9. Wing..... CHECK
10. Position Light..... CHECK
11. Flap, Aileron And Hinges CHECK

Before Starting Engines

1. Passenger Briefing. COMPLETE
2. Seat Belts ADJUSTED / SECURE
3. Parking Brake..... TEST AND SET
4. Circuit BreakersCHECK IN
5. Avionics and Electrical Equipment OFF
6. Cowl Flaps OPEN

Reference Speeds

| | |
|----------------------------------|----------|
| V _{so} | 40 KIAS |
| V _s | 48 KIAS |
| V _r | 50 KIAS |
| V _x | 60 KIAS |
| V _y | 75 KIAS |
| V _{fe} Full..... | 95 KIAS |
| 10° | 140 KIAS |
| V _a2950Lbs..... | 110 KIAS |
| 2450Lbs..... | 100 KIAS |
| 1950Lbs..... | 89 KIAS |
| V _{no} | 141 KIAS |
| V _{ne} | 176 KIAS |

Starting Engines (Flooded & Hot Starts on Page 13)

1. Mixture RICH
2. Propeller HIGH RPM
3. Carb Heat.....COLD
4. Throttle OPEN ½ INCH
5. Prime AS REQUIRED
6. Master Switch.....ON
7. BeaconON
8. Propeller Area..... CLEAR
9. Ignition SwitchSTART

Do Not Crank More Than 30 Seconds/Allow 2 Minutes to Cool

10. Throttle 1000 RPM
11. Oil PressureINDICATING GREEN
12. MixtureLEAN FOR TAXI
13. Suction.....INDICATING GREEN
14. Flaps RETRACT
15. Navigation Lights AS REQUIRED
16. Avionics.....ON
17. Transponder.....STANDBY / 1200
18. ATIS / AWOS / ASOS..... OBTAIN
19. Altimeter..... SET
20. Departure & Taxi Clearance / Advisory.....CONTACT

Taxi

1. Brakes CHECK
2. Flight Instruments..... CROSS-CHECK

Before Takeoff

1. Nose wheelSTRAIGHT
2. Parking Brake SET
3. Flight Controls..... CHECK
4. Fuel Selector.....BOTH
5. Mixture RICH
6. Throttles..... 1700 RPM
7. MixtureSET FOR DENSITY ALTITUDE
8. Propeller CYCLE (High to Low)
9. Magnetos125 max drop, 50 diff.) CHECK
10. Suction.....INDICATING GREEN
11. Throttle IDLE THEN 1000 RPM
12. Throttle Friction LockADJUST
13. Communication / Navigation Radios SET
14. Flight Instruments.....SET AND CHECKED
15. Fuel QuantitiesCHECKED
16. TrimSET FOR TAKEOFF
17. FlapsSET FOR TAKEOFF
18. Cabin Doors & WindowsCLOSED AND LATCHED
19. Seats..... ADJUSTED / LOCKED
20. Departure Briefing..... CLEARANCE /
EMERGENCY PLAN
21. Tower / Advisory.....CONTACT

Cleared For Takeoff

1. Strobes / Lights..... AS REQUIRED
2. Pitot Heat..... AS REQUIRED
3. Transponder..... ALTITUDE
4. Traffic..... CHECK

Normal Takeoff

1. Wing Flaps 0°/10°
2. Power..... FULL THROTTLE
3. Vr..... 50 KIAS
4. Pitch..... 80 KIAS

Short Field Takeoff

1. Wing Flaps 20°
2. Brakes..... HOLD
3. Throttle..... FULL OPEN
4. Engine Gauges..... CHECK
5. Brakes..... RELEASE
6. Vr..... 50 KIAS
7. Pitch..... (Obstacle Clearance Speed) 57 KIAS

After Obstacles are cleared

8. Pitch..... NORMAL CLIMB

Enroute Climb (above 1000 Feet AGL)

1. Airspeed. CRUISE CLIMB 80 KIAS
2. Throttle. 23 INCHES
3. Propellers..... 2450 RPM
4. Mixture AS REQUIRED
5. Cowl Flaps..... OPEN

Cruise

1. Power. 15-23 INCHES
2. Propeller 2200-2450RPM
3. Cowl Flaps..... AS REQUIRED
4. Lights.....AS DESIRED
5. Trim AS REQUIRED

Descent

1. Arrival BriefingCOMPLTE
2. Altimeter..... SET
3. Mixture ADJUST AS REQUIRED
4. Power.....AS DESIRED
5. Carburetor Heat AS REQUIRED
6. Cowl Flaps. CLOSED
7. Wing FlapsAS DESIRED
8. Landing Light ON

Before Landing

1. Seats, Seatbelts ADJUST / LOCKED
2. Fuel Selector BOTH
3. Propeller HIGH RPM
4. Cowl Flaps CLOSED
5. Carburetor Heat ON
6. Mixture ADJUST AS REQUIRED
7. Trim ADJUST

Normal Landing

1. Airspeed (flaps up) 90 KIAS
2. Wing Flaps 0° to FULL AS DESIRED
3. Pitch FINAL 70 KIAS
4. Power FOR DESIRED DESCENT RATE
5. Brakes APPLY AS NECESSARY

Short Field Landing

1. Wing Flaps FULL (RECOMMENDED)
2. Pitch 60 KIAS
3. Power FOR DESIRED DESCENT RATE

After Touchdown

4. Wing Flaps RETRACT
5. Elevator Control HOLD FULL NOSE UP
6. Brakes APPLY AS NECESSARY

Go Around (Balked Landing)

1. Throttle FULL OPEN
2. Carburetor Heat COLD
3. Wing Flaps RETRACT to 20°
4. Climb Speed 70 KIAS
5. Wing Flaps RETRACT SLOWLY to 0°
6. Cowl Flaps OPEN

After Landing / Clear of Runway

1. Transponder STANDBY
2. Flaps RETRACT
3. Cowl Flaps OPEN
4. Mixture LEAN FOR TAXI
5. Strobes OFF
6. Landing Light OFF
7. Taxi Clearance / Advisory CONTACT

Securing Airplane

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

Abnormal Procedures

Starting Engines When Flooded

1. Master Switch..... ON
2. Beacon ON
3. Magneto Switches ON
4. Throttle FULL OPEN
5. Mixture IDLE CUT-OFF
6. Propeller Area..... CLEAR
7. Starter ENGAGE
8. Throttle RETARD
9. Mixture ADVANCE FULL RICH
10. Oil Pressure CHECK

Starting Engine When Hot

1. Master Switch ON
2. Beacon..... ON
3. Magneto Switches ON
4. Throttle..... OPEN ½ INCH
5. Mixture..... FULL RICH
6. Propeller Area CLEAR
7. Starter ENGAGE
8. Oil Pressure..... CHECK

Electrical Power Supply System Malfunction

Over-Voltage Light Illuminates

1. Master Switch OFF (both sides)
2. Master Switch ON
3. Over-Voltage Light OFF

If over-voltage light illuminates again:

4. Flight TERMINATE AS SOON AS PRACTICAL

Ammeter Shows Discharge

1. Alternator OFF
2. Nonessential Electrical Equipment OFF
3. Flight TERMINATE AS SOON AS PRACTICAL

EMERGENCY CHECKLIST

This is an operational checklist. Procedures in the red text of 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 OPERATIONS

Engine Failure After Takeoff:

Wing Flaps Up 70 KIAS

Wing Flaps Down 65 KIAS

Maximum Glide:

2950 Lbs..... 70 KIAS

Precautionary Landing with Engine Power 65 KIAS

Landing Without Engine Power:

Wing Flaps Up 70 KIAS

Wing Flaps Down 65 KIAS

Engine Failure During Takeoff Run

1. **Throttle.....IDLE**
2. **Brakes.....APPLY**
3. **Wing Flaps.....RETRACT**
4. **Mixture.....IDLE CUT-OFF**
5. **Ignition Switch.....OFF**

Engine Failure Immediately After Takeoff

1. Airspeed(flaps up)70 KIAS
(flaps down)65 KIAS
2. Mixture..... IDLE CUT-OFF
3. Fuel Selector ValveOFF
4. Ignition SwitchOFF
5. Wing Flaps..... (40° recommended) AS REQUIRED
6. Master Switch.....OFF

Engine Failure During Flight

1. Airspeed70 KIAS
2. Carburetor HeatON
3. Fuel Selector ValveBOTH
4. Mixture RICH
5. Ignition Switch .. BOTH (or start if propeller is stopped)
6. Primer IN AND LOCKED

Emergency Landing Without Engine Power

- 1. Airspeed(Flaps Up)70 KIAS
(Flaps Down).....65 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. Wing Flaps.....(40° Recommended) AS REQUIRED
8. Master Switch OFF
9. Doors UNLATCH PRIOR TO TOUCHDOWN
10. Touchdown SLIGHTLY TAIL LOW
11. Brakes APPLY HEAVILY

Precautionary Landing With Engine Power

1. Wing Flaps..... 20°
2. Airspeed..... 65 KIAS
3. Selected Field FLY OVER, noting terrain and obstructions, then retract flaps upon reaching safe altitude and airspeed
4. Radio and Electrical Switches OFF
5. Wing Flaps..... 40°
6. Airspeed..... 65 KIAS
7. Master Switch OFF
8. Doors UNLATCH PRIOR TO TOUCHDOWN
9. Touchdown SLIGHTLY TAIL LOW
10. Ignition Switch OFF
11. Brakes APPLY HEAVILY

Fire During Start

1. Starter **CONTINUE CRANKING**

If engine starts:

2. Power 1700 RPM for a few minutes
3. Engine **SHUTDOWN** and inspect for damage

If engine fails to start:

4. Throttle **FULL OPEN**
5. Mixture..... **IDLE CUT-OFF**
6. Cranking **CONTINUE for two or three minutes**
7. Fire Extinguisher **OBTAIN**
(have ground attendants obtain if not installed)

8. Engine..... **SECURE**
a. Master Switch..... **OFF**
b. Ignition Switch **OFF**
c. Fuel Selector Valve **OFF**

9. Fire **EXTINGUISH**
using fire extinguisher, seat cushion, wool blanket, or dirt.
If practical try to remove carburetor air filter if it is ablaze.
10. Fire Damage..... **INSPECT**,
repair damage or replace damaged components or wiring
before conducting another flight.

Engine Fire In Flight

1. Mixture..... **IDLE CUT-OFF**
2. Fuel Selector Valve **OFF**
3. Master Switch..... **OFF**
4. Cabin Heat and Air..... **OFF (except overhead vents)**
5. Airspeed **100 KIAS**
6. Forced Landing **EXECUTE**
(as described in Emergency Landing Without Engine Power)

Electrical Fire In Flight

1. Master Switch..... **OFF**
2. All Other Switches **OFF (except ignition switch)**
3. Vents/Cabin Air/Heat **CLOSED**
4. Fire Extinguisher **ACTIVATE (if available)**

If fire appears out and electrical power is necessary for continuance of flight:

5. Master Switch **ON**
6. Circuit Breakers **CHECK**
for faulty circuit, do not reset
7. Radio/Electrical Switches **ON**
one at a time, with delay after each
until short circuit is localized
8. Vents/Cabin Air/Heat..... **OPEN**
(when it is ascertained that fire is completely extinguished)

Cabin Fire

1. Master Switch.....**OFF**
2. Vents/Cabin Air/Heat **CLOSED (to avoid drafts)**
3. Fire Extinguisher**ACTIVATE (if available)**
After discharging an extinguisher within a closed cabin,
ventilate the cabin.
4. Land the airplane as soon as possible to inspect for damage.

Wing Fire

1. Navigation Light Switch..... OFF
2. Strobe Light Switch.....(if installed) OFF
3. Pitot Heat Switch..... OFF

Note

Perform a sideslip to keep the flames away from the fuel tank and cabin, and land as soon as possible using flaps only as required for final approach and touchdown.

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