

Civil Air Patrol

Cessna: C182R

CVD: 1 Dec 15 (GPS Equipped)

Preflight Cabin

1. AIF...Review all & Inspect for Airworthiness
2. Pitot Tube Cover...Remove & Check Clear
3. POH..... Accessible to Pilot
4. GPS Cockpit Ref Guide
..... Accessible to Pilot
5. Weight & Balance..... Checked
6. Parking Brake..... Set
7. Hobbs & Tach Time..... Record
8. AROW Documents..... Check
9. Control/Avionics Lock..... Remove
10. Avionics & GPS Power.....Off
11. Magnetos (Ignition) Switch.....Off
12. Master Switch.....On
13. Flaps.....Full Down
14. Fuel Indicators..... Check Quantity

WARNING

When the master switch is on, using an external power source, or manually rotating the propeller, treat the propeller as if the magnetos switch were on. Do not stand, nor allow anyone else to stand, within the arc of the propeller since a loose or broken wire, or a component malfunction could cause the engine to start.

15. Low-Vac Warning Light . Check On
16. Avionics Power Switch.....On
17. Avionics Cooling Fan..... Check
18. Avionics Power Switch.....Off
19. Pitot Heat.....Check Clear
20. Lights..... Check
21. Master Switch.....Off
22. Alternate Static Air..... Push In
23. Fuel Selector..... Both
24. Fire Extinguisher..... Verify Green

Preflight Empennage

1. Baggage Door Secure & Lock
2. Tail Tie Down.....Disconnect
3. Tail Streamer..... Remove
4. Control Surfaces..... Check
5. Trim Tab..... Check Secure
6. Lights..... Check Condition
7. Antennas..... Check Condition

Preflight Right Wing trailing edge

1. Right Flap Check
2. Right Aileron Check
3. Right Wingtip / Lights..... Check

Preflight Right Wing

1. Wing Tie Down Disconnect
2. Fuel Tank Vent Opening..... Check
3. Main Wheel Tire (42 PSI) Check
4. Chocks..... Remove & Stow
5. Brake Check Visually
6. Right Fuel Sump Drain
7. Fuel Quantity..... Visually Check
8. Fuel Filler Cap Secure and Vent
Unobstructed

Nose

1. Static Source (Right)..... Check
2. Prop/Spinner/Engine Inlet.... Check
3. Landing & Taxi Lights Check
4. Carburetor Air Filter Check
5. Nose wheel / Strut, Tire (49 PSI)
..... Check
6. Towbar & Chocks Remove & Stow
7. Engine Oil Dipstick..... 9-12 Qts
8. Engine Oil Filler Cap..... Secure
9. Fuel Strainer Drain
10. Static Source (Left) Check
11. Windscreen..... Check Condition

Preflight Left Wing Leading Edge

1. Pitot Tube Check Clear
2. Fuel Tank Vent Check Clear
3. Stall Warning Check
4. Left Wingtip & Lights..... Check

Preflight Left Wing Trailing Edge

1. Left Aileron..... Check
2. Left Flap..... Check
3. Wing Tie-Down Disconnect

Preflight Left Wing

1. Main Wheel Tire (42 PSI) Check
2. Brake Visually Check
3. Left Fuel Sump Drain
4. Fuel Quantity..... Visually Check
5. Fuel Filler Cap Secure
6. Chocks..... Remove & Stow

Before Starting Engine

1. Preflight Inspection.....Complete

PASSENGER BRIEF

1. Seat Belts / Shoulder Harness
2. Personal Electronic Devices off
3. Air Vents / Comfort
4. Fire Extinguisher Location / Operation
5. Emergency Procedures & Exits

MISSION BRIEF

1. Mission Objective
 2. Destination, WX, Route, Alt, ETE
 3. NOTAMS
 4. Crew Coordination & CRM
 5. Sterile Cockpit Procedures
 6. Cockpit Layout
 7. Intercom & Radio Usage
 8. Seats, Seatbelts, Doors
 9. Emergency Action & Equipment
2. Passenger BriefComplete
 3. Sterile Cockpit.....Comply
 4. Seats / Belts / Shoulder Harness
..... Adjust & lock
 5. Brakes Test & Set
 6. Circuit Breakers..... Check In
 7. Avionics Power Switch..... Off
 8. GPS..... Off
 9. Electrical Equipment..... Off
 10. Auto Pilot Off
 11. Cowl Flaps..... Open
 12. Fuel Selector Valve....Recheck Both

Starting Engine (Using Battery)

1. Carburetor Heat..... Cold
2. Throttle Open ½ Inch
3. Propeller Control.....High RPM
4. Mixture Control Rich
5. Propeller Area..... Clear
6. Master Switch..... On
7. Beacon Light..... On
8. Prime As Required

Note

If engine has been over primed, start with throttle ½ to full open. Reduce throttle immediately to idle when engine fires.

9. Ignition Switch..... Start
10. Throttle..... 800 to 1000 RPM
11. Oil Pressure Check

12. Starter Check Disengaged
13. Mixture Lean to Max RPM
14. Transponder..... Set
15. Flaps Up

Avionics Startup

1. Avionics Power Switch On
2. Comm / Nav freqs On & Set
3. GPS..... On
4. GPS
 - Verify database exp. Date
 - Verify Inst Panel Self-Test
 - Set NAV
 - Enter Flight Plan
5. Transponder..... TEST/Code Set/ALT
6. Taxi & Nav Lights As Required
7. Radios On
8. ATIS/AWOS Copy
9. Altimeter Set
10. ClnC Del / Grnd Ctrl Contact

Pre-Taxi

1. Manual Trim.....Check
2. Autopilot Engage..... verify can
overpower roll
3. Autopilot..... Disconnect
4. GPS Status Check

Taxi

1. Parking Brake Release
2. Brakes..... Test
3. Heat / Vents / Defrost .. As Required
4. Attitude Indicator. Verify Proper Ops
5. Turn Coordinator. Verify Proper Ops
6. H.I. & Compass....Verify Proper Ops

Before Takeoff - Run-Up

1. Parking Brake Set
2. Passenger Seat Backs Upright
3. Seats & Seat Belts..... Secure
4. Cabin Doors..... Closed & Locked
5. Flight Controls..... Free & Correct
6. Flight Instruments & H.I. Check & Set
7. Fuel Quantity..... Check
8. Mixture Rich
9. Fuel Selector Recheck Both
10. Elevator & Rudder Trim Set
11. Cowl Flaps Recheck Open
12. Throttle..... 1700 RPM
13. Magnetos Max Drop 150 RPM
..... Max Differential 50 RPM

14. Carb Heat..... Check for RPM Drop
15. Propeller.....Cycle
16. Suction Gauge Check
17. Engine Inst & Ammeter Check
18. Throttle..... Idle Check
.....then 800 – 1000 RPM
19. Throttle Friction Lock Adjust
20. Radios / Transponder Set
21. GPS Flight Plan..... Activate
22. Autopilot Off
23. Flaps Set
24. Primer..... In & Locked
25. Carb Heat..... Cold
26. Takeoff Briefing..... Complete
27. Doors & Windows Latched
28. Lights..... As Required
29. Transponder..... Code Set/ALT
30. Time Record
31. Parking Brake Release

Takeoff

1. Flaps..... 0°- 20°
 - Short Field T.O. 20° Flaps / 59 KIAS Until Clear.
 - Soft Field T.O. 20° Flaps/Ground Effect ASAP.
2. Carb Heat Cold
3. Throttle Full & 2400 RPM
4. Mixture..... Full Rich or Max Power
5. Engine Instruments..... In Green.
6. Propeller Control..... 2400 RPM.
7. Rotate 50 KIAS.
8. Normal Climb Speed 80 KIAS.
9. Flaps..... Retract above 70 KIAS.

After Takeoff and Climb

1. Airspeed 85-95 KIAS
2. Throttle 23 Inches or Full Open
(whichever is less)
3. Propeller Control..... 2400 RPM
4. Mixture..... Full Rich or Max Power
5. Cowl Flaps..... Recheck Open
6. Engine Instruments..... Check
7. Sterile Cockpit..... Terminate

Cruise

1. Power..... 15-23 Inches MP
(2100-2400 RPM or \leq 75% power).
2. Elevator & Rudder Trim..... Adjust
3. Mixture..... Lean

4. Cowl Flaps As required
5. Engine Instruments / Fuel.... Check
6. Heading Indicator.... To GPS Track
7. Lights As required.
8. Flight Plan Activate as required

Descent

1. Heading Indicator..... To Compass
2. Altimeter..... Set
3. GPS APC..... Select/Activate
4. Fuel Selector..... Both
5. Lights As Required
6. Engine Instruments..... Check
7. Mixture Slowly Enrich
8. Carb Heat As Required
9. Cowl Flaps Closed
10. Wing Flaps..... As Desired

Before Landing

1. Sterile Cockpit..... Comply.
2. Seats & Seat Belts..... Secured & Locked.
3. Fuel Selector..... Recheck Both.
4. Mixture Control Rich.
5. Propeller Control..... High RPM.
6. Carb Heat On
7. Autopilot..... Off.
8. Landing & Taxi Light Switches. On.

Normal Landing

1. Airspeed..... 70-80 KIAS (Flaps Up)
2. Wing Flaps..... As Desired
3. Airspeed... 60-70 KIAS (Full Flaps)
4. Trim..... Adjust
5. Touchdown Main Wheels First
6. Landing Roll..... Gently Lower Nose
7. Braking..... Minimum Required

Short Field Landing

1. Airspeed... 70-80 KIAS (Flaps Up)
2. Flaps Full (below 95 KIAS)
3. Airspeed..... Maintain 61 KIAS
4. Trim..... Adjust
5. Power.... Idle as obstacle cleared
6. Touch Down.... Main Wheels First
7. Brakes..... Apply
8. Flaps Retract for Max Brake effectiveness

Balked Landing

1. Power.. Full Throttle & 2400 RPM
2. Carb Heat..... Cold
3. Wing Flaps.... 20° IMMEDIATELY
4. Climb Speed 55 KIAS
5. Flaps Retract Slowly (above 70 KIAS)
6. Cowl Flaps Open

After Landing (Clear of Runway)

1. Wing Flaps..... Up
2. Carb Heat..... Cold
3. Cowl Flaps Open
4. Lights As Required
5. Mixture..... Lean for Taxi
6. Pitot Heat..... Off
7. Sterile Cockpit..... Terminate

Securing Aircraft

1. Parking Brake Set
2. ELT 121.5..... Check
3. Throttle Control Idle
4. GPS..... Off
5. Electrical Equipment..... Off
6. Avionics Power & Switches.... Off
7. Magnetos Check for Ground
8. Mixture Idle Cut-Off
9. Sterile Cockpit..... Terminate
10. Magnetos (Ignition) Switch..... Off
11. Master Switch (ALT/BAT) Off
12. Hobbs, Tach and Fuel..... Record
13. Control/Avionics Lock Install
14. Cowl Flaps Closed
15. Fuel Selector Left or Right
16. Chocks..... Install
17. Parking Brake Release
18. Aircraft..... Secured & Locked
19. Flight Plan & FRO Closed

V SPEEDS AND SPECS

X-Wind (Max Demo'd)	15 Knots
Vr Rotation Speed	50 KIAS
Vx Best Angle Climb.....	59 KIAS
Vy Best Rate Climb.....	81 KIAS
Vso Stall w/ Flaps	40 KIAS
Vs1 Stall w/o Flaps	50 KIAS
Best Glide (3100 Lbs)	76 KIAS
Best Glide (2600 Lbs)	70 KIAS
Best Glide (2000 Lbs)	61 KIAS
Va Max Abrupt Ctrl(3100 Lbs)...	111 KIAS
Va Max Abrupt Ctrl(2600 Lbs)..	102 KIAS
VA Max Abrupt Ctrl (2000 Lbs.)..	88 KIAS
Vno Max Structural Cruise.....	143 KIAS
Vne Never Exceed.....	179 KIAS
Vfe 10° Flaps	140 KIAS
Vfe 10°-Full Flaps	95 KIAS

General...

- EMERGENCY..... 121.50
- Unicom..... 122.70-122.80-122.95
123.00-123.05
- Multicom 122.90
- Flight Service 122.20 (Most Common) 122.10-122.60-123.60
- Air to Air 122.75-122.85-123.45

Transponder Codes

- 1200 VFR
- 7500 HIJACK
- 7600 LOST COMMS
- 7700 EMERGENCY

This checklist is a guide to coordinate Pilot Operating Handbook and STC data applicable to this particular aircraft only. The applicable Pilot Operating Handbook and STC installations remain the official documentation for this aircraft. The pilot in command is responsible for complying with all items in the Pilot Operating Handbook and applicable STCs.