

Civil Air Patrol

1984 Cessna-182R – N8323E

Preflight Cabin

1. Pilot's Operating Handbook Available
2. Parking Brake Set
3. Hobbs & Tach Check
4. Fire Extinguisher Charged
5. Squawk Sheet Check
6. Documents AROW in airplane
7. Control/Avionics Lock Remove
8. Avionics Power Switch Off
9. Ignition Switch Off
10. Master Switch On

Warning

When turning on the master switch, using an external power source, or pulling the propeller through by hand, treat the propeller as if the ignition 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 propeller to rotate.

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. Right Fuel Vent Check Clear
3. Rt. Main Wheel Tire & Brake .. Check
4. Right Fuel Sump(s) Drain
5. Right Fuel Quantity ... Visually Check
6. Fuel Filler Cap Secure, vent unobstructed

Nose

1. Static Sources ... Check (Both sides)
2. Prop/Spinner/Engine Inlet Check
3. Landing and Taxi Lights Check
4. Carburetor Air Filter Check
5. Nose Wheel, Strut & Tire Check
6. Nose Tie-Down Disconnect
7. Engine Oil Filler Cap .. Check Secure
8. Engine Oil Dipstick 9-12 Quarts
9. Fuel Strainer Drain Knob .. Pullout to Drain
10. Windscreen Check/Clean

Preflight Left Wing

1. Left Main Wheel Tire & Brake.. Check
2. Left Fuel Sump(s) Drain
3. Left Fuel Quantity Visually Check
4. Fuel Filler Cap Secure

Preflight Left Wing Leading Edge

1. Pitot Tube Cover Remove
2. Left Fuel Vent Check Clear
3. Stall Warning Check
4. Wing Tie-Down Disconnect
5. Left Wingtip & Lights Check

Preflight Left Wing Trailing Edge

1. Left Aileron Check
2. Left Flap Check

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

Before Starting Engine

1. Preflight Inspection Complete
2. Passenger Brief Complete
3. Seats / Belts / Shoulder Harness Adjust and Lock
4. Brakes Test & Set
5. Avionics Power Switch Off

Caution

The avionics power switch must be OFF during engine start to prevent possible damage to avionics.

6. Electrical Equipment Off
7. Circuit Breakers Check In
8. Autopilot (if installed) Off
9. Cowl Flaps Open
10. Fuel Selector Valve Both

Starting Engine

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

Note

If engine has been over primed, start with throttle ¼ to ½ open. Reduce throttle to idle when engine fires.

9. Throttle 800 to 1000 RPM
10. Oil Pressure Check
11. Starter Check Disengaged
12. Avionics Power Switch On
13. Beacon & Nav Lights On
14. Taxi Lights As Required
15. Flaps Up

16. Transponder TEST/STBY
17. Radios On
18. ATIS / AWOS Copy
19. Altimeter .. Set (Verify Within 75' of Fld Elev.)
20. Clearance Delivery/Ground Control Contact

Taxi

1. Brakes Test
2. Heat / Vents / Defrost .. As Required
3. Attitude Indicator Verify Proper Operation
4. Turn Coordinator Verify Proper Operation
5. H.I. & Compass Verify Proper Operation
6. Fuel Selector Valve .. Check & Set to Both

Before Takeoff - Run-Up

1. Parking Brake Set
2. Seats / Belts / Shoulder Harness Check Secure
3. Cabin Doors Closed and Locked
4. Flight Controls Free & Correct
5. Flight Instruments & H.I. Check & Set

Caution

The directional indicator should be rechecked during engine run-up to avoid compass deviation errors, which may occur below 1200 RPM.

6. Fuel Quantity Check
7. Mixture Rich
8. Fuel Selector Valve ... Recheck Both
9. Elevator & Rudder Trim Set for Takeoff
10. Cowl Flaps Recheck Open
11. Throttle 1700 RPM
12. Magnetos Max Drop 150 RPM
Max Differential 50 RPM
13. Carb Heat Check for RPM Drop
14. Propeller Cycle
15. Suction Gauge Check
16. Engine Inst & Ammeter Check
17. Throttle Idle Check, then 800 to 1000 RPM
18. Throttle Friction Lock Adjust

- 19. Electric Trim (if installed) Check
- 20. Strobe Lights/Pulse Lights (If installed).....As Desired
- 21. Radios / Transponder.....Set
- 22. Autopilot (If Installed).....Off
- 23. Flaps set for Takeoff.....0°-20°
- 24. Primer.....In & Locked
- 25. Carb Heat.....Cold
- 26. Electric Trim (If Installed).....Test
- 27. Takeoff Briefing.....Complete
- 28. Doors & Windows.....Latched
- 29. Lights.....Set
- 30. Transponder.....Set to ALT
- 31. Time.....Record
- 32. Parking Brake.....Release

Takeoff

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

Enroute Climb

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

Cruise

- 1. Power 15-23 Inches & 2100-2400 RPM (no more than 75% power).
- 2. Elevator & Rudder Trim..... Adjust
- 3. Mixture..... Lean
- 4. Cowl Flaps.....As required
- 5. Engine Instruments / Fuel..... Check
- 6. Heading Indicator (H.I.) To Compass
- 7. Lights..... As Required
- 8. Flight Plan Activate as Required

- Descent**
- 1. Heading Indicator. To Compass
 - 2. Altimeter Set
 - 3. Fuel Selector Both
 - 4. Lights As Required
 - 5. Engine Instruments Check
 - 6. Mixture Enrich
 - 7. Power / Carb Heat.....As Required
 - 8. Cowl Flaps.....Closed
 - 9. Wing Flaps As Desired

Before Landing

- 1. Seat, Seat Belts, Shoulder Harness Adjust and Lock
- 2. Fuel Selector Both
- 3. Mixture Rich
- 4. Propeller High RPM
- 5. Carb Heat..... On
- 6. Autopilot (if installed)..... Off

Normal Landing

- 1. Airspeed ...70-80 KIAS (Flaps Up)
- 2. Airspeed 60-70 KIAS (Flaps Down)
- 3. Trim Adjust
- 4. Touchdown..... Main Wheel First
- 5. Landing Roll.. Lower Nose Wheel Gently
- 6. 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 .. Reduce to idle as obstacle is cleared
- 6. Touchdown..... Main Wheels First
- 7. Brakes Apply Heavily
- 8. Flaps..... Retract for Max brake effectiveness.

Balked Landing

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

After Landing (Clear of Runway)

- 1. Flaps Up
- 2. Carb Heat Cold
- 3. Cowl Flaps Open
- 4. Lights As Required
- 5. Transponder STBY & 1200
- 6. Mixture Lean
- 7. Pitot Heat Off

Securing Aircraft

- 1. Parking Brake Set
- 2. Throttle Idle
- 3. Avionics Power & Switches Off
- 4. Magnetos Check for Ground
- 5. Mixture Idle Cut Off
- 6. Ignition & Master Switch Off
- 7. Control/Avionics Lock Install
- 8. Parking Brake Off
- 9. Cowl Flaps Closed
- 10. Fuel Selector Left or Right
- 11. Hobbs & Tach Record
- 12. Aircraft..... Secured & Locked
- 13. Flight Plan 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 (CTAF)
- Flight Service 122.20 (Most Common) 122.10-122.60-123.60
- Flight Watch 122.00
- Air to Air 122.75-122.85-123.45
- Transponder Codes/Light Signals...**
- 1200 VFR
- 7500 HIJACK
- 7600 LOST COMMS
- 7700 EMERGENCY
- Gross Weight Capacity.....
- 3100 (Takeoff) 2950 (Landing)
- Engine..... Continental O-470-U
- Max Power 230 BHP
- Fuel Type 100LL (Blue)
- Fuel Capacity (Standard) 88 Gal Usable
- Oil Type..... SAE 15W-50
- Oil Capacity... 12 Qts (Minimum 9)
- Electrical 24-28 Volt / 60 Amp
- Tire Pressure Nose-49 PSI / Main-42 PSI

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.

I certify this checklist has been reviewed for accuracy.

R. A. K. 03/16/06
 Wing Director of Maintenance Date
 N8323E 060311