

# Civil Air Patrol

## Cessna: C182T

CVD: 20 Feb 2022 (GPS Non-G1000)

### Preflight Cabin

1. AIF...Review all & Inspect for Airworthiness
2. Pitot Tube Cover...Remove & Check Clear.
3. POH & GPS Cockpit Ref. Guide  
..... Accessible to Pilot.
4. Documents ..... AROW in airplane.
5. Weight & Balance ..... Checked.
6. Parking Brake ..... Set.
7. Control Wheel Lock..... Remove.

#### 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.

8. Ignition Switch ..... Off.
9. Avionics Master Switch ..... Off.
10. Master Switch ..... On.
11. Hobbs & Tach Time..... Record.
12. Fuel Quantity Indicators ..... Check Quantity and Ensure Low Fuel Annunciators (L Low Fuel R) are Extinguished.
13. Avionics Master Switch ..... On.
14. Avionics Cooling Fan..... Check Audibly For Operation (if installed).
15. Avionics Master Switch ..... Off.
16. Static Press. Alt Source Valve..... Off.
17. Annunciator Panel Switch ... Place And Hold In TST Position and ensure all annunciators illuminate.
18. Annunciator Panel Test Switch...  
.....Release. Check that appropriate annunciators remain on.

#### Note

When Master Switch is turned ON, some annunciators flash for approximately 10 seconds before illuminating steadily. When panel TST switch is toggled up and held in position, all remain lights will flash until the switch is released.

19. Fuel Selector Valve ..... Both.
20. Flaps (motor check)... Extend (full).
21. Pitot Heat... On (Carefully check that pitot tube is warm to the touch within 30 seconds).
22. Stall Warning ..... Check.
23. Pitot Heat ..... Off.
24. Master Switch ..... Off.
25. Trim Controls ..... Neutral.
26. ALT STATIC AIR Valve ..... Off.
27. Fire Extinguisher.. Check (gage-green arc).

### Preflight Empennage

1. Baggage Door..... Locked with key.
2. Tail Tie-Down..... Disconnect.
3. Control Surfaces..... Check.
4. Trim Tab ..... Check for security.
5. Lights..... Check Condition.
6. Antennas..... Check.

### Preflight Right Wing trailing edge

1. Flap ..... Check.
2. Aileron..... Check.
3. Wing Tip/Lights ..... Check.

### Preflight Right Wing

1. Wing Tie Down ..... Disconnect.
2. Fuel Tank Vent Opening..... Check.
3. Main Wheel Tire (42 PSI).... Check.
4. Brake..... Inspect Visually.
5. Chocks..... Remove & Stow.
6. Quick Drain Valves (5)..... Drain. Drain at least a cupful of fuel from each sump location to check for water, sediment, and proper fuel grade before each flight and after refueling. If water is observed, take further samples until clear and then gently rock wings and lower tail to the ground to move any additional contaminants to the sampling points. Take repeated samples from all fuel drain points until all

See Fuel Contamination Warning in the POH.

7. Fuel Quantity ..... Check Visually.
8. Fuel Filler Cap..... Secure and Vent unobstructed.

### Nose

1. Static Source (Right)..... Check.
2. Quick Drain Valves (3)..... Drain. (Drain at least a cupful.)
3. Engine Air Cooling Inlets..... Check.

See Fuel Contamination Warning in the POH.

4. Propeller & Spinner..... Check.
5. Air Filter..... Check.
6. Nosewheel Strut/Tire(49PSI)Check.
7. Tow Bar/Chocks... Remove & Stow.
8. Engine Cooling Outlets ..... Clear.
9. Engine Oil Dipstick.. Check oil level and secure. (4 qt min., 9 qt for extended flights)
10. Static Source (Left) ..... Check.

### Preflight Left Wing Leading Edge

1. Fuel Tank Vent Opening ..... Check.
2. Stall Warning Opening ..... Check.
3. Land/Taxi light(s) .. Check condition.
4. Wing Tip/Lights ..... Check.

### Preflight Left Wing

1. Wing Tie-down..... Disconnect.
2. Pitot Tube..... Check Clear.
3. Left Fuel Quantity ... Visually Check.
4. Fuel Filler Cap ..... Secure.
5. Quick Drain Valves (5). ..... Drain. Drain at least a cupful of fuel from each sump location to check for water, sediment, and proper fuel grade before each flight and after refueling.

See Fuel Contamination Warning in the POH.

6. Main Wheel Tire (42 PSI) ..... Check.
7. Brake..... Check Visually.
8. Chocks..... Remove & Stow.

### Preflight Left Wing Trailing Edge

1. Aileron ..... Check.
2. Flap..... Check.

### 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 & Msn Brief... Complete.
  3. Sterile Cockpit..... Comply.
  4. Seats / Belts / Shoulder Harness  
Adjust and lock, check inertial reels. (front & rear).
  5. Brakes..... Test & Set.
  6. Circuit Breakers ..... Check In.
  7. Electrical Equipment..... Off.
- Caution (See Complete Caution in POH) The avionics switch (Bus 1 and 2) must be off during engine start ....**
8. Avionics Switch (Bus 1&2)..... Off.
  9. Cowl  
Flaps..... Open.
  10. Fuel Selector..... Recheck Both.

### Starting Engine (Using Battery)

1. Throttle Control ..... Open ¼ Inch.
  2. Propeller Control..... High RPM.
  3. Mixture Control ..... Idle Cut Off.
  4. Propeller Area..... Clear.
  5. Master Switch ..... On.
  6. Flashing Beacon & Nav Lights .. On.
  7. Auxiliary Fuel Pump..... On.
  8. Mixture .Advance to full rich until the fuel flow just starts to rise, then return to Idle Cut Off position.
  9. Auxiliary Fuel Pump..... Off.
- Note:** If engine is warm, omit priming procedure of steps 7, 8 and 9 above.
10. Ignition Switch..... Start.
  11. Mixture ...Advance to full rich when engine starts.

**Note:** If the engine floods, place the mixture in Idle Cut Off, open the throttle control ½ to full, and crank engine. When the engine fires, advance mixture to the Full Rich position and retard the throttle promptly.

12. Oil Pressure..... Check.
13. Mixture ..... Lean for Max RPM.
14. Avionics Master Switch .....On.
15. GPS:
  - Database Currency.....Check
  - GPS Status.....Check
  - Flight Plan.....Enter, as desired
16. Radios .....On.
17. Flaps.....Retract.
18. ATIS / AWOS..... Copy.
19. Altimeter.....Set
20. Cln Del/Gnd Control ..... Contact
21. Transponder....Code/Flight ID/ALT
22. Parking Brake..... Release

### **Taxi**

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

### **Before Takeoff - Run-Up**

1. Parking Brake ..... Set.
2. Passenger Seat Backs....Most upright position.
3. Seats & Seat Belts...Check Secure.
4. Cabin Doors .... Closed and Locked.
5. Flight Controls.....Free & Correct.
6. Flight Instruments ..... Check & Set.
7. Fuel Quantity..... Check.
8. Mixture ..... Rich.
9. Fuel Selector Valve.. Recheck Both.
10. Elevator & Rudder Trim.....Set for Take Off.
11. Throttle ..... 1800 RPM.
  - Magnetos Switch.Check (RPM drop 175 or 50 differential between magnetos.)

- Prop Control ...Cycle from high to low RPM, return to high RPM (full in).
  - Vacuum Gauge ..... Check.
  - Engine Instrument and Ammeter..... Check.
12. Annunciator Panel.... Ensure none are illuminated.
  13. Throttle..... Check Idle.
  14. Throttle..... 1000 RPM or less.
  15. Throttle Friction Lock ..... Adjust.
  16. Strobe Lights.....As Desired.
  17. XPDR (Transponder)...Code Set/ALT.
  18. Radios & Avionics.....Set.
  19. NAV/GPS Switch .....Set.
  20. Autopilot (if installed) ..... Off.
  21. Wing Flaps Set for Takeoff (0°-20°)
  22. Cowl Flaps ..... Open.
  23. Brakes..... Release.

### **Takeoff**

1. Flaps..... 0°-20°.
2. Power .....Full Throttle & 2400 RPM.
3. Mixture Control....Rich, (mixture may be leaned to Maximum Fuel Flow placard value).
4. Elevator Control...Lift Nose Wheel at 50-60 KIAS.
5. Climb Speed.....70 KIAS (flaps 20°)  
80 KIAS (flaps 0°).
  - Short Field T.O.....20° Flaps / 60 KIAS Until Clear.
  - Soft Field T.O.20° Flaps / Ground Effect ASAP.
6. Wing Flaps ..... Retract slowly after reaching safe altitude and 70 KIAS.

### **Normal Climb**

1. Airspeed .....85-95 KIAS.
2. Power .....23 Inches or Full Throttle (whichever is less) and 2400 RPM.
3. Propeller Control ..... 2400 RPM.
4. Mixture.....15 GPH or Full Rich (whichever is less).
5. Fuel Selector Valve .....Both.
6. Cowl Flaps..... Open as required.

### **Cruise**

1. Power . 15-23 In. & 2000-2400 RPM (no more than 80%).
2. Elevator & Rudder Trim..... Adjust.

3. Mixture ..... Lean.
4. Cowl Flaps.....Closed.

### **Descent**

1. Power ..... As Desired.
2. Mixture ..... Enrich as required.
3. Cowl Flaps..... Closed.
4. Altimeter .....Set.
5. NAV/GPS Switch ..... Set.
6. Fuel Selector valve ..... Both.
7. Wing Flaps..... As Desired.

### **Before Landing**

1. Pilot and Passenger Seat Backs ... Most Upright Position.
2. Seats & Seat Belts ..Secured & Locked.
3. Fuel Selector ..... Both.
4. Mixture Control .....Rich.
5. Propeller ..... High RPM.
6. Landing/Taxi Lights ..... On.
7. Autopilot (if installed) ..... Off.

### **Normal Landing**

1. Airspeed .. 70-80 KIAS (Flaps Up).
2. Wing Flaps..... As Desired.
3. Airspeed . 60-70 KIAS (Full Flaps).
4. Power...Reduce to idle as obstacle is cleared.
5. Trim .....Adjust.
6. Touchdown.....Main Wheels First.
7. Landing Roll..... Lower Nosewheel Gently.
8. Braking ..... Minimum Required.

### **Balked Landing**

1. Power .. Full Throttle & 2400 RPM.
2. Wing Flaps.....Retract to 20°.
3. Climb Speed ..... 55 KIAS.
4. Flaps..Retract slowly after reaching a safe altitude and 70 KIAS.
5. Cowl Flaps.....Open.

### **After Landing (Clear of Runway)**

1. Wing Flaps.....Up.
2. Cowl Flaps.....Open.
3. Lights .....As Required.
4. Mixture .....Lean.
5. Pitot Heat..... Off.

### **Securing Aircraft**

1. Parking Brake ..... Set.
2. Transponder.....1200/Flight ID
3. ELT (121.5)...Confirm Not Activated.
4. Throttle Control ..... Idle (pull full out).
5. Electrical Equipment..... Off.
6. Avionics Master Switch ..... Off.
7. Magnetos ..... Check for Ground.
8. Mixture ..... Idle Cut Off.
9. Ignition Switch..... Off.
10. Master Switch..... Off.
11. Hobbs, Tach and Fuel.....Record.
12. Sterile Cockpit ..... Terminate.
13. Control/Avionics Lock ..... Install.
14. Parking Brake ..... Off.
15. Cowl Flaps ..... Closed.
16. Fuel Selector ..... Left or Right.
17. Aircraft..... Secured & Locked.
18. Flight Plan ..... Closed.

### **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**

- VFR Transponder.....1200
- Lost Comm.....7600
- Emergency.....7700
- Hijack.....7500

**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.**