

**PREFLIGHT**

**PREPARATION**

Covers/Plugs/Tiedowns/Streamers....Remove  
 Windshield.....Check/Clean  
 Note: Use only clean microfiber towels on glass

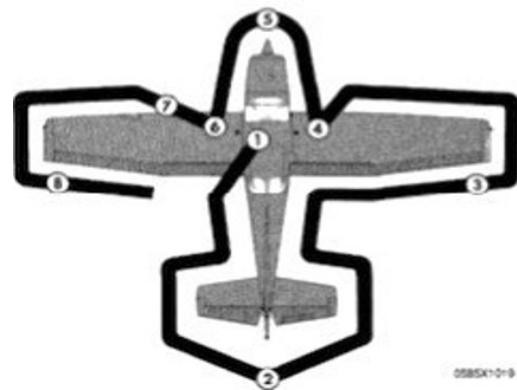
**INTERIOR**

Control Lock..... Remove  
 Avionics Master Switch..... OFF  
 Master Switch..... ON  
 Fuel Selector Valve..... BOTH  
 Cowl Flaps..... OPEN  
 Flaps.....Extend  
 Alt Static Source Valve..... OFF  
 Ignition Key..... Out  
 G3X Database.....Check/Continue  
 EIS Tape..... Touch for Engine Page  
 Tach (Engine Hours).....Check/Record  
 Hobbs (Total Hours).....Check/Record  
 Exterior Lights/Pitot Heat/Stall Horn....Check  
 Master Switch..... OFF

**EXTERIOR**

Empennage.....Check  
 Control Surfaces.....Check free and secure  
 Right Aileron..... Check secure/condition  
 Fuel Tank Vent.....Check clear  
 Tire and Brake.....Check inflation/wear  
 Fuel Sump.....Drain & Inspect

Fuel & Filler Cap..... Check qty & Secure  
 Static Port (right side).....Check  
 Engine Cooling Inlets.....Clear  
 Prop & Spinner...Check (nicks, secure, leaks)  
 Carb Air Inlet.....Check for restrictions  
 Nose Strut & Tire....Check (inflation/condition)  
 Oil Dipstick.....Check (9-12 qts & condition)  
 Fuel Strainer Knob.....PULL/DRAIN 4 secs  
 (Check for water)  
 Static Port (left side).....Check  
 Pitot Tube.....Check  
 Left Aileron.....Check secure/condition  
 Tire and Brake.....Check inflation/wear  
 Fuel Sump.....Drain & Inspect  
 Fuel & Filler Cap..... Check qty & Secure



**BEFORE STARTING ENGINE**

Pre-Flight Inspection.....Complete  
 Seats/Belts/Harnesses..... ON  
 Fuel Selector..... BOTH  
 Cowl Flaps..... OPEN  
 Circuit Breakers.....Checked IN  
 Electrical Equipment (except BCN)..... OFF  
 Brakes..... Parking Brake OFF / Brakes Hold

**STARTING ENGINE**

Master Switch.....ON  
 Mixture.....RICH  
 Propeller..... High RPM  
 Throttle.....OPEN 1/2"  
 Carb Heat..... COLD  
 Prime.....As required [2-6 strokes]  
 EIS Tape..... Touch for Engine Page  
 Propeller Area..... "CLEAR"  
 Ignition Switch..... START

**NOTE:** To clear over primed engine:  
 - Throttle - halfway OPEN  
 - When engine fires - Throttle IDLE

Oil Pressure.....Check  
 Ammeter.....Check  
 Voltage.....Check  
 Mixture.....(Consider) LEAN  
 Flaps..... UP  
 Avionics Master..... ON  
 GTN Database.....Check/Continue  
 HSI NAV Source.....Verify "GPS1"  
 Fuel Calc..... Touch to check/Set Fuel qty  
 [Noise Canceling/Flightstream.....ON/Pair]

**BEFORE TAXI**

Weather..... Obtain  
 G3X, GTN, COM..... Set and Check  
 Exterior Lights.....As required  
 Brakes.....Roll forward/Test

**BEFORE TAKEOFF**

- Autopilot.....Engage
- Flight Controls..... Check Resistance
- Autopilot DISC Button..... Press
- Flight Director (FD).....OFF

Flight Controls.....Free & Correct  
 Fuel Selector..... BOTH  
 Mixture.....RICH

- Throttle..... 1700 RPM
- Magneto Check.....(150 max drop/50 diff)
- Propeller.....Cycle (High/Low/High)
- Carb. Heat.....ON/Check RPM drop
- Eng. Instruments & Ammeter.....Check
- Throttle..... Check IDLE
- Carb. Heat.....OFF/Set 1000RPM

**\*Before Lineup Items\***

Elevator and Rudder Trim...Set for Takeoff  
 Flaps.....Set for Takeoff  
 G3X, GTN, COM, FD.....As required  
 Throttle Friction Lock.....Adjust  
 Lights.....As required  
 Mixture.....RICH  
 Cabin Doors & Windows....Closed & Locked

**NORMAL TAKEOFF**

Flaps..... 0° - 20°  
 Carb Heat..... COLD  
 Throttle..... Full OPEN/2400 RPM  
 Elevator..... Lift nose at 50KTS  
 Climb Spd. .70kts(Flaps 20) 80kts(Flaps UP)  
 Flaps.....Retract

**SHORT FIELD TAKEOFF**

Flaps..... 20°  
 Carb Heat..... COLD  
 Brakes..... Apply  
 Throttle..... Full OPEN/2400 RPM  
 Brakes..... Release  
 Elevator..... Slightly Tail low  
 Climb Spd... .59 KTS (until clear of obstacles)  
 Flaps.....Retract slowly >70KTS

**CLIMB**

Flaps..... UP  
 Power..... 23"/2400 RPM  
 Airspeed (clear of obstacles)..... 100KTS  
 Mixture in Climb... RICH<5000', LEAN above

**CRUISE**

Power..... Set for Cruise  
 Mixture..... LEAN  
 Cowl Flaps..... As required  
 Lights..... As required

	Manifold Pressure	RPM	Pitch	Airspeed	VSI	Flaps
Cruise Climb	23"	2,400	8°	100	800	0°
Level Approach	13.7"	Full	2°	90	0	10°
Precision Approach Descent	11.3"	Full	0°	90	-450	10°
Non-Precision Approach Descent	8.9"	Full	-2.5°	90	-700	10°
Vy Climb	Full	Full	12.5°	81	1000	0°

**DESCENT**

Carb Heat..... As required  
 Mixture..... Enrich as required  
 Cowl Flaps..... CLOSED  
 Flaps..... As required  
 <140KTS = 10°  
 <95KTS = 10° - 40°

**BEFORE LANDING**

Seats and Harnesses..... Check secure  
 Fuel Selector..... BOTH  
 Mixture..... RICH  
 Propeller..... HIGH RPM  
 Carb Heat..... ON  
 Landing Light..... ON

**NORMAL LANDING**

Flaps..... 10° (<140KTS), 10°-40° (<95KTS)  
 Airspeed (Flaps UP)..... 70-80KTS  
 Airspeed (Flaps DOWN)..... 60-70KTS

**SHORT-FIELD LANDING**

Flaps..... 40° (<90KTS)  
 Airspeed..... 61KTS  
 Power..... IDLE after clearing obstacles

**GO AROUND**

Throttle..... Full OPEN/2400 RPM  
 Carb Heat..... COLD  
 Flaps..... Retract to 20°  
 Climb Spd..... 55KTS (until obstacles cleared)  
 Flaps...Retract slowly after 70KTS & Safe alt.  
 Cowl Flaps..... OPEN

**AFTER LANDING**

Cowl Flaps..... OPEN  
 Flaps..... UP  
 Mixture..... (Consider) LEAN  
 Carb Heat..... COLD  
 Lights..... As required

**SHUTDOWN-SECURING**

Parking Brake..... Only if required  
 Electrical Equipment (except BCN)..... OFF  
 Avionics Master Switch..... OFF  
 Mixture..... IDLE CUT OFF  
 Ignition Switch..... OFF (remove key)  
 EIS Tape..... Touch for Engine Page  
 Tach (Engine Hours)..... Check/Record  
 Hobbs (Total Hours)..... Check/Record  
 Master Switch..... OFF  
 Fuel Selector Valve..... RIGHT  
 Cowl Flaps..... CLOSED  
 Control Lock..... Install

- \*Blue Book
- \*Personal items, Tie-Downs, Chocks & Cover
- \*Blue Sky Credit Card – IN GLOVE BOX
- \*Do you need to CLOSE FLIGHT PLAN?

**CESSNA C-182R**

Engine..... Teledyne Continental  
 O470-U 230 HP 6cyl.  
 Wingspan..... 36'  
 Length..... 28'  
 Height..... 9'3"  
 Fuel..... 2 x 46GAL (88GAL usable)  
 Oil..... 9-12QTS (12QTS capacity)

**WEIGHTS**

Useful Load..... 1299LBS  
 Max Ramp..... 3110LBS  
 Max T/O..... 3100LBS  
 Max LDG..... 2950LBS  
 Max Baggage... 200LBS (areas B&C=80LBS)

**SPEEDS**

Va..... 111-88KTS (3100-2000LBS)  
 Vfe..... 10°=140KTS, 40°=95KTS  
 Vno..... 143KTS  
 Vne..... 179KTS  
 Vy..... 81KTS  
 Vx..... 59KTS  
 Best Glide [Flaps UP] ..... 76KTS – 3100LBS  
 61KTS – 2000LBS

Max Dem'strd X-wind..... 15KTS

**LIMITATIONS**

Service ceiling..... 14,900'  
 No aerobatics, spins, bank >60°, pitch >30°  
 Fuel..... T/O and LDG w fuel sel in BOTH  
 LEFT or RIGHT Level Flight only  
 Baggage.... 200LBS (120LBS fwd, 80LBS aft)  
 Flaps..... T/O: 0°-20°, LDG: 0°-40°  
 Pre-Heat Temp..... 32°F (2hrs prior)