

PREFLIGHT

PREPARATION

Covers/Plugs/Tiedowns/Streamers....Remove
Windshield.....Check/Clean

Note: Use only clean microfiber towels on glass

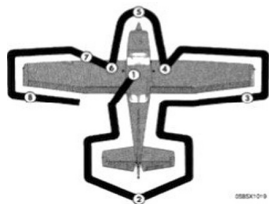
INTERIOR

Control Lock..... Remove
Avionics Master Switch..... OFF
Master Switch (BAT only)..... 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 (BAT)..... 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



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 (BAT only).....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

Master Switch (ALT only).....ON
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)