

1

PREFLIGHT

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..... Check
Master Switch..... OFF

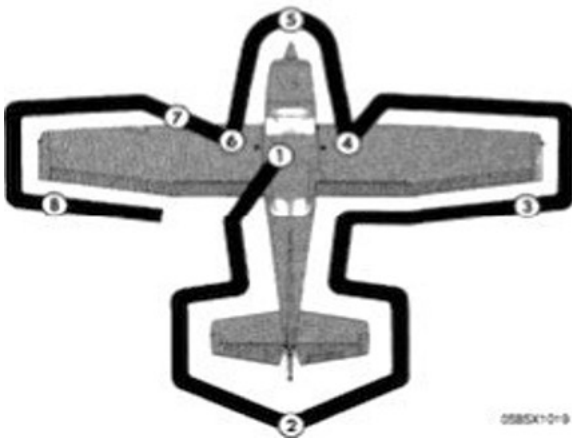
EXTERIOR

Tie Downs..... Disconnect
Empennage..... Check
Control Surfaces..... Check free and secure
Right Aileron..... Check secure/condition
Tires and Brakes..... Check inflation/wear
Fuel Tank Vent..... Check clear
Fuel Sumps..... Drain & Inspect
Fuel & Filler Cap..... Check qty & Secure
Static Ports (both sides of fuselage)..... Check
Engine Cooling Inlets..... Clear

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Prop, Spinner..... Check (nicks, secure, leaks)
Landing Lights..... Check
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)
Left Wing..... Same as right plus:
Pitot Cover..... Remove
Stall Warning Operation... Check horn

Note: Use only clean microfiber towels on glass



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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

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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

<u>NORMAL TAKEOFF</u>	
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
<u>SHORT FIELD TAKEOFF</u>	
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

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
<u>NORMAL LANDING</u>	
Flaps.....	10° (<140KTS), 10°-40° (<95KTS)
Airspeed (Flaps UP).....	70-80KTS
Airspeed (Flaps DOWN).....	60-70KTS
<u>SHORT-FIELD LANDING</u>	
Flaps.....	40° (<90KTS)
Airspeed.....	61KTS
Power.....	IDLE after clearing obstacles

<u>GO AROUND</u>	
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)
<u>WEIGHTS</u>	
Useful Load.....	1299LBS
Max Ramp.....	3110LBS
Max T/O.....	3100LBS
Max LDG.....	2950LBS
Max Baggage...	200LBS (areas B&C=80LBS)
<u>SPEEDS</u>	
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
<u>LIMITATIONS</u>	
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)