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### PREFLIGHT

#### INTERIOR

Note: Use only clean Microfiber towels on glass

- A** - Airworthiness Certificate
- R** - Registration
- R** - Radio License (req'd for int'l ops)
- O** - Operating Limitations (POH)
- W** - Weight & Balance

- Cowl Flaps ..... OPEN
- Control Lock ..... REMOVE
- Ignition Key ..... OUT
- Avionics Master Switch ..... OFF
- Master Switch ..... ON
- G3X Database ..... CHECK/continue
- EIS Tape ..... TOUCH for Engine Page
- Tach (Engine Hours) ..... CHECK/record
- Hobbs (Total Hours) ..... CHECK/record
- Fuel Calc ..... TOUCH to CHECK/SET Fuel
- Flaps ..... EXTEND
- Fuel Selector Valve ..... BOTH
- Alt Static Source Valve ..... OFF
- 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

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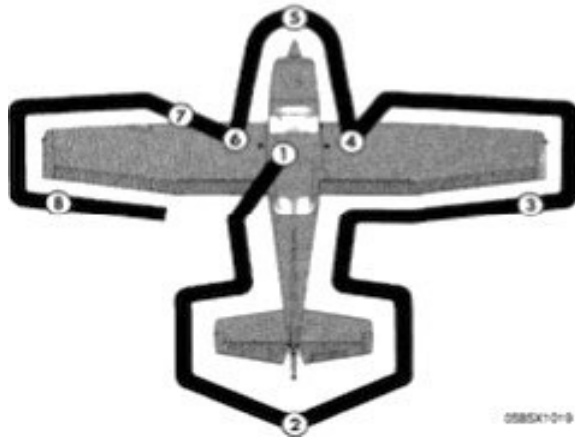
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- Tires and Brakes ..... CHECK inflation/wear
- Fuel Tank Vent ..... CHECK CLEAR
- Fuel Sumps ..... DRAIN & INSPECT
- Fuel & Filler Cap ..... CHECK Qty & SECURE
- Static Ports (both sides fuselage) ..... CHECK
- Engine Cooling Inlets ..... CLEAR
- Prop, Spinner ..... CHECK  
(nicks, secure, oil leaks)

- Landing Lights ..... CHECK
- Carb Air Inlet ..... CHECK for restrictions
- Nose Strut & Tire ..... CHECK  
(inflation & condition)

- Oil Dipstick ..... CHECK Qty  
(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



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### BEFORE STARTING ENGINE

- Pre-Flight Inspection ..... COMPLETE
- Seats/Belts/Harnesses ..... ON
- Fuel selector ..... BOTH
- Electrical equipment (except BCN) ..... OFF
- Brakes .... Parking Brake OFF / Brakes HOLD
- Cowl Flaps ..... OPEN
- Circuit Breakers ..... CHECKED IN

### STARTING ENGINE

- Master Switch ..... ON
- Mixture ..... RICH
- Propeller ..... High RPM
- Carb Heat ..... COLD
- Throttle ..... OPEN 1/2"
- Prime ..... as required [2-6 strokes]
- Propeller Area ..... "CLEAR"
- Ignition Switch ..... START
- Oil Pressure ..... CHECK

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

- Flaps ..... UP
- Mixture ..... (Consider) LEAN
- Avionics Master ..... ON
- GTN Database ..... CHECK/continue
- HSI NAV source ..... VERIFY "GPS1"
- EIS Tape ..... TOUCH for Engine Page
- Ammeter ..... CHECK
- Voltage ..... CHECK

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### BEFORE TAXI

- Weather ..... OBTAIN
- G3X, GTN, COM, Autopilot..SET and CHECK
- Exterior Lights ..... as required
- Brakes ..... roll forward/TEST

### BEFORE TAKEOFF

- Cabin Doors & Windows ..... closed & locked
- Brakes ..... HOLD
- Autopilot ..... ENGAGE
- Flight controls ..... CHECK/override
- Autopilot DISC button ..... PRESS
- 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 ..... CHECK RPM DROP/OFF
- Eng. Instruments & Ammeter ..... CHECK
- Throttle ..... CHECK IDLE then 1000 RPM

- \*Before Lineup Items (prior entering runway)\***
- Elevator and Rudder Trim... SET for Takeoff
  - Flaps ..... SET for Takeoff
  - G3X, GTN, COM, Autopilot..... RECHECK
  - Throttle Friction Lock ..... ADJUST
  - Lights ..... as required
  - Brakes ..... RELEASE

### NORMAL TAKEOFF

- Flaps ..... 0° - 20°
- Carb Heat ..... COLD

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Throttle ..... FULL OPEN/2400 RPM  
 Elevator .....LIFT NOSE at 50KTS  
 Climb Speed. 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 Speed.59 KTS (until clear of obstacles)  
 Flaps.....RETRACT slowly >70KTS

**CLIMB**

Power ..... 23"/2400 RPM  
 Airspeed ..... 85-95KTS  
 Fuel Selector .....BOTH  
 Mixture in Climb...RICH<5000', LEAN above

**CRUISE**

Power ..... SET for cruise  
 Mixture..... Lean Assist / LEAN  
 Cowl Flaps .....as required  
 Lights ..... as required

**DESCENT**

Fuel Selector..... BOTH  
 Power.....as desired  
 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  
 Carb Heat ..... ON  
 Propeller .....HIGH RPM  
 Lights .....as required

**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 Speed 55KTS (until obstacles cleared)  
 Flaps .. Retract slowly after 70KTS & safe alt.  
 Cowl Flaps ..... OPEN

**AFTER LANDING**

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

**SHUTDOWN - SECURING**

Parking Brake..... only if required  
 Throttle ..... IDLE  
 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  
 Cowl Flaps..... CLOSED  
 Control Lock ..... INSTALL  
 Fuel Selector Valve .....RIGHT

\*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)