

PREFLIGHT

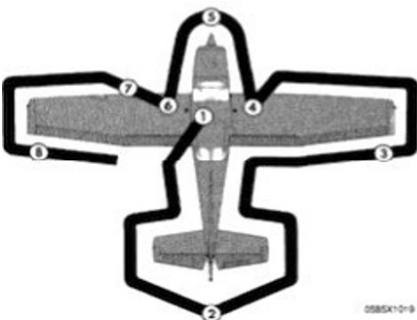
INTERIOR

Control Lock..... Remove
Avionics Master Switch..... OFF
Master Switch..... ON
Fuel Selector Valve..... BOTH
Fuel Shutoff Valve..... IN
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 and Strainer..... Drain & Inspect
Fuel & Filler Cap..... Check qty & Secure
Static Ports (both sides of fuselage)..... Check
Engine Cooling Inlets..... Clear

Prop, Spinner..... Check (nicks, secure, leaks)
Landing Lights..... Check
Air Filter..... Check for restrictions
Nose Strut & Tire..... Check (inflation/condition)
Oil Dipstick..... Check (5-8 qts & condition)
Left Wing..... Same as right plus:
Pitot Cover..... Remove
Stall Warning Operation... Check clear
Note: Use only clean microfiber towels on glass



BEFORE STARTING ENGINE

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

STARTING ENGINE

Master Switch..... ON

Mixture..... IDLE CUTOFF
Throttle..... OPEN 1/4"
EIS Tape..... Touch for Engine Page
Propeller Area..... "CLEAR"

Cold Engine

Fuel Pump..... ON
Mixture... RICH 3-5 sec. (note FF) then IDLE
Fuel Pump OFF
Ignition Switch..... START
when engine fires:
MIXTURE..... Smoothly move to RICH

Warm Engine

Ignition Switch..... START
when engine fires:
MIXTURE..... Smoothly move to RICH

Flooded Engine

Fuel Pump..... OFF
Mixture..... IDLE CUTOFF
Throttle MID position
Ignition Switch..... START
when engine fires:
MIXTURE..... Promptly move to RICH
Throttle..... Promptly close to 1000 RPM

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

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..... 1800 RPM
- Magneto Check..... (150 max drop/50 diff)
- Eng. Instruments..... Check all
- Throttle..... Check IDLE, then 1000 RPM

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° - 10°
Throttle.....	Full OPEN
Elevator.....	Lift nose at 55KTS
Climb Spd. .70kts(Flaps 10) 80kts(Flaps UP)	
Flaps.....	Retract

Flaps.....	.10°
Brakes.....	.Apply
Throttle.....	Full OPEN
Brakes.....	.Release
Elevator.....	Slightly Tail low
Climb Spd...	.56 KTS (until clear of obstacles)
Flaps.....	Retract slowly >60KTS

Flaps.....UP
Throttle..... Full OPEN
Airspeed (clear of obstacles)..... 80KTS
Mixture in Climb....RICH<3000' LEAN above

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

	RPM	Pitch	Airspeed	VSI	Flaps
Cruise Climb	2,600	10°	80	750	0°
Level Approach	2,100	2°	90	0	10°
Precision Approach Descent	1,900	-2°	90	-500	10°
Non-Precision Approach Descent	1,600	-4°	90	-800	10°
V _y Climb	2,600	12°	74	800	0°

Mixture.....	Enrich as required
Flaps.....	As required
	<110KTS = 10°
	<85KTS = 10°- 30°

Seats and Harnesses.....	Check secure
Fuel Selector.....	BOTH
Mixture.....	RICH
Landing Light.....	ON

Flaps.....	10° (<110KTS), 10°-30° (<85KTS)
Airspeed (Flaps UP).....	65-75KTS
Airspeed (Flaps DOWN).....	60-70KTS

Flaps.....30° (<85KTS)
Airspeed......61KTS
Power..... IDLE after clearing obstacles

GO AROUND

Throttle.....Full OPEN

Flaps.....Retract to 20°

Climb Spd..... 60KTS (until obstacles cleared)

Flaps...Retract slowly after 65KTS & Safe alt.

Flaps.....UP
Mixture.....(Consider) LEAN
Lights.....As required

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.....	LEFT or RIGHT
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?

Engine.....	Textron Lycoming 360-L2A 180 HP 4cyl.
Wingspan.....	36'1"
Length.....	27'2"
Height.....	8'11"
Fuel.....	.2 x 28GAL (53GAL usable)
Oil.....	.5-8QTS (12QTS capacity)

Max Ramp.....	2558LBS
Max T/O.....	2550LBS
Max LDG.....	2550LBS
Max Baggage.....	120LBS (areas2 =50LBS)

Va.....	105-90KTS (2550-1900LBS)
Vfe.....	10°=110KTS, 30°=85KTS
Vno.....	129KTS
Vne.....	163KTS
Vy.....	74KTS
Vx.....	62KTS
Best Glide [Flaps UP]	68KTS – 2550LBS
Max Dem'strd X-wind.....	15KTS

Service ceiling..... 12,000'
No aerobatics, spins, bank >60°, pitch >30°
Fuel..... T/O and LDG w fuel sel in BOTH
LEFT or RIGHT=Level Flight only
Baggage.... 120LBS (120LBS fwd, 50LBS aft)
Flaps..... T/O: 0°-10°, LDG: 0°-30°
Pre-Heat Temp..... 32°F (2hrs prior)