Post-Flight

- ADSB Handheld off
- Tiedowns/Chocks
 - Pitot Cover
- Fuel switch to L/R
- Gust Lock
- Close Flight Plan
 - Hobbs Time note
- Check Under Seats
- Cabin / Baggage lock
- Post-Flight Walkaround

Engine Failure

- Short Flow
- Fuel on/both
- Mixture full/check
- Electrical Pump on
 - Alternate Air on
- Mags. check all
 - Glide and Trim
 - Speed: LB kts
- Ratio: 9, 1.48nm/1000f

 - Wind and Landing Site
 - Longer Flow
- Engine Indicators
- Short Flow Again
 - No Restart
- Mixture idle cut-off Fuel - off
 - Prop/Throttle off
- Mags. off
- Belt and Seat check Master - off
 - Unlatch Door
- ► Approach 80/70/65 kts

Ground Operations

- ► Papers A.R.O.W.
- . Throttle 1000 RPM Controls - free & correct
 - ▼ Mags. key out
- √ Mixture idle cutoff ► Throttle - idle
- Electrical off
 - Essential Bus off
 - Avionics off Master - on

Fuel Pressure - 14-35 psi Volts/Amps - [25-30] [>0]

Engine Inst. - no Xs

► Mixture - lean (peak)

- Fuel Pump check
- - ▶ Fuel note
- ► Flaps UP, then T/0 Lights - as required ► Flaps - check & set T/0 Lights/Pitot - test
 - ► Master off

Avionics - on/set

GPS - JB date

► Hobbs Time - note

ATIS - PFD/backup/AP(?) Fuel Totalizer - enter

Radio - test

- ► Canopy/Door check
- . Fuel/0il test/sample
 - Caps/Drains/Vents
- Surfaces/Controls
- . Stall Strips/Fairings
- Exhaust/Antennas
- Prop/Air Intakes x3
- Pitot/Static/Stall
- . Gear/Tires/Brakes
 - Ties/Chocks
- ▶ Final Walkaround

Rudder Pedals - adjust /▶ Rear Door - secure

Alternate Static - check

AP - MET/HDG Trim - T/0

Instruments - scan

- ▶ Seat Belts
- Parking/Brakes test/set
- check Strobe (ACL) - on · Circuit Brkrs.
 - Avionics off
- . Fuel Selector least
 - ► Canopy pos· 1/2
 - Passenger brief

Cycle Prop x3 - 250-500

Throttle - 2000 RPM

Mags. L/R - 1,75, 50.

Alternate Air - check

Engine Inst. - check

Throttle - 1000 RPM

Idle Check

Mixture - lean

- ▶ Prime
- Mixture idle cutoff

Prop - high RPM

- Friction adjust
- Master Bat. on
- Throttle 1.2"
- Electric Pump on

Lights - as required

ADSB Handheld - on

Mixture - 1-3 sec

- DA40-Glood (Ted Yin v0.8)
- Mixture 3-5 sec .Throttle - 0.4"
- "Prop (lear!" ▶ Mags. - start
- ACL Strobes on

Electrical - off

Avionics - off

ELT - check (121.5)

- Throttle 1000 RPM
- Mags. off then both Mixture - idle cutoff Mags. - key out

Oil Pressure - 15 secs

Electric Pump - off

Master Alt. - on

Tach Time - note Master - off

Post-Fligh

- ADSB Handheld of Tiedowns/Chocks
 - Pitot Cover
 - Gust Lock
- Close Flight Plan Hobbs Time - note
- Check Under Seats
- Post-Flight Walkaround Canpoy/Door - lock

Electric Pump - off

Mixture - lean (full aft) Throttle - 1/2 position

Check - TC/AI/HSI<->MC

Transponder - squawk

Mags. - start

Brakes - release/test

Clearance - obtain

- When engine fires:
- Throttle idle

Parking Brake - set

Seat Belts - check Canopy/Door - lock Door Warning - off

Mixture - rich (rapidly) Finish up normal start

- **V** = 59 Flight Controls - correct
- 2646/2535/2205/1.874 1bs Weights
 - Ng = 76/73/68/60
- $V_{y}(U_{p}) = 7L/73/L8/L0$
- Vy(T/0) = L7/LL/L0/54

Fuel Selector - fullest

Hdg./Alt. Bugs

- Approach Speeds
- 09/84/57/45 qu GPS/Status Bar/Ann. Test

MFD Range/Track Up

Comm/Nav/V0R/FP Mixture - rich

- T/0 74/72/66/59
- LDG 73/71/63/58
- MÄM 40-227
- .yes 111 @ 2284-2646 · no - 108 @ 2161-2535
 - below 2161/2284 94

***Clights, Camera, Action** **Electric Pump - on **Mixture/Prop/Throttle **Engine Inst green **Vr - 59; then 67-60 KIAS **Safe Altitude **Prop - 2400 RPM **Pump - off **Lights - as required **Climb **T/O: Vy = 67-54 KIAS **Ed minus 1.8 per 100 1bs **under 2646 **Cruise **Flaps - UP **Vy = 76-60 KIAS **Mixture - rich **5000 hold const. EGT **Prop - 2400 RPM **Throttle - full **Engine Inst green **Trim - as required **High Altitude - pump on **Throttle - 21-24" **Prop - 1800-2400 RPM **Mixture - pump on **Flaps - UP **Throttle - 21-24" **Prop - 1800-2400 RPM **Mixture - pump on **Flaps - UP **Throttle - 21-24" **Prop - 1800-2400 RPM **Mixture - pump on **Flaps - UP **Throttle - 1800-2400 RPM **Mixture - pump on **Flow Check (\forall Lights - pump on **F	In-Flight Operations Pre-Takeoff Abort Plan/Lost Comm. Canopy/Door - lock Fuel Selector - fullest Flaps - T/O Mixture - rich Prop - high RPM Pitot Heat - as required Review Airspeeds Time - note/start Takeoff
M: Mixture - rich P: Prop - high RPM P: Pump - on S: Seat Belts - secure F: Flaps - as required 17/0 <108 KIAS 1D6 <91 KIAS 1D7	Descent Mixture - richen slowly Throttle - as required Prop - 1800-2400 RPM High Altitude - pump on CHT Cool Down <= 50°F(22.8°C) per min. Pre-Landing ATIS/Rwys & Patterns "CCGUMPSF" G: Fuel Selector downwind/fullest
No Rest Fuel Se Fuel S	• Mixture - full/check • Pump - on • Alternate Air - on • Mags check all • Glide and Trim • Speed: 76-60 KIAS • Windmill: 1:8.8. • Windmill: 1:8.8. 1.45nm/lkft • Stationary: 1:10.3. 1.7nm/lkft • Stationary: 1:10.3.
	Initial Papers - A.R.O.W. Control Lock - off Mags key out Mixture - idle cutoff Throttle - idle Avionics - off Fuel Shutoff - on Fuel - both Master - on Fuel - note Flans - down
→ Fruel lotalizer - enter → ATIS - PFD/backup/AP(?) → Radio - test → Transponder - squawk ← Check - TC/AI/HSI<->MC ← Clearance - obtain → Brakes - set → Seat Belts - check → Doors/Windows - secure → Flight Controls - correct → Instruments - scan → Alternate Static - check → Ap - MET/HDG → Trim - takeoff → Fuel - on/both → Hdg./Alt. Bugs → GPS/Status Bar/Ann. Test → Mixture - rich → Mixture - rich → Mixture - rich → Mags 150. 50 → Engine Inst check → Infrottle - 1000 RPM → Mags 150. 50 → Engine Inst check → Infortle - 1000 RPM → Mags 150. 50 → Engine Inst check → Throttle - 1000 RPM → Mags 150. 50 → Engine Inst check → Throttle - 1000 RPM → Mags 150. 50 → Engine Inst check → Throttle - 1000 RPM → Mags 150. 50 → Engine Inst check → Throttle - 1000 RPM → Mags 150. 50 → Engine Inst check → Throttle - 1000 RPM → Mags 150. 50 → Mixture - rich → Abort Plan/Lost Comm. → Flaps - 0-10° → Mixture - rich → Aux. Pump - off → Pitot heat - as required → Review Airspeeds → Time - note/start	<pre>Mixture - 3/4 rich Prop (lear!" Mags - start Throttle - 1000 RPM Oil Pressure - 30 secs. Volts/Amps - [\text{LDJ}] Mixture - lean for taxi Pre-Taxi Flaps - up Lights - as required Avionics - on/set GPS - DB date</pre>

¬¬CCGUMPSF¬¬

• G: Fuel - on/both

► ATIS/Rwys & Patterns

Pre-Landing

▶ Flow Check

Throttle - as required Mixture - richen slowly ▶ Flow Check (~15 min) ► Mixture - lean >3000

• Flaps, Engine Inst.

 Master, Mag., Pump • Mixture, Throttle

Descent

• Fuel, Trim

▶ Cruise Climb - 75-85 kts

Climb / Cruise

• Flaps - up

Vx - Ы2 kts, Vy - 74 kts

▶ Engine Inst· - green

Mixture/Throttle

Vr - 55 kts

▶ "Lights, Camera, Action"

▶ Ldg. Light - on ▶ Trim - as required

• F: Flaps - as required • S: Seat Belts - secure • M: Mixture - rich

▶ Approach - 80-65 kts

▶ Flaps - up

▶ Pitot Heat - off

▼ Trim - takeoff

Mixture - lean

▶ Throttle - 1000 RPM

Post-Landing

Master - off

► Mags· - key out

▶ Throttle - 1888 RPM

▶ Mags· - off then both

Mixture - idle cutoff

▶ ELT - check (121.5)

Shutdown

▼ Clearance - obtain ▶ Lights - as required

▶ Lights - off ▶ Avionics - off

Beacon - on

▶ Stby. Battery - off ▶ Tach Time - note