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

DA40-G1000 (Ted Yin v0.9) Ground Operations

- ► Papers A.R.O.W.
 - ► Mags. key out
 - ► Electrical off
- ✓ Avionics off
- Essential Bus off
- Mixture idle cutoff Prop - high RPM
- . Throttle idle
- ► Master on
- Flaps check & set T/0
 - ► Lights/Pitot test Fuel Pump - check
 - Fuel note
- ► Master off
- ► Controls free & correct ► Flaps UP, then T/0 · Lights - as required

► Hobbs Time - note

Avionics - on/set

GPS - DB date

- ► Canopy/Door check
- Fuel/0il test/sample

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

- Surfaces/Controls Caps/Drains/Vents
- . Stall Strips/Fairings
- Exhaust/Antennas

Check - TC/AI/HSI<->MC

Clearance - obtain

Transponder - squawk

Radio - test

Brakes - release/test

Parking Brake - set

Seat Belts - check

- Prop/Air Intakes x3
- Pitot/Static/Stall
 - Struts/Tires/Brakes
- ▶ Final Walkaround . Ties/Chocks

- ▶ Rear Door secure
- . Rudder Pedals adjust
 - Seat Belts
- . Parking/Brakes test/set
- Circuit Brkrs• check · Strobe (ACL) - on

 - Essential Bus off · Avionics - off
- · Fuel Selector least
 - Canopy pos. 1/2
 - ► Passenger brief

- Prime
- Mixture idle cutoff
 - Prop high RPM
- Friction adjust
- Master Bat. on Throttle - 1.2"
- Electric Pump on

Warm

- Mixture 1-3 sec

▶ Lights - as required

► ADSB Handheld - on

- ▼ ELT check (1,21,-5) Avionics - off
- Electrical off

Electric Pump - off

"Prop (lear!" Mags. - start

·Mixture - 3-5 sec

Throttle - 0.4"

- Throttle 1000 RPM ACL Strobes - on
- Mags. off then both
 - Mixture idle cutoff ► Mags. - key out
 - ▶ Tach Time note Master - off

Fuel Pressure - 1.4-35 psi

Oil Pressure - 1.5 secs.

Throttle - 1000 RPM

Mixture - rich

Volts/Amps - [[25-30]] [[>0]

Master Alt. - on

Engine Inst. - no Xs Mixture - lean (peak)

ADSB Handheld - off Post-Flight

Tiedowns/Chocks

Pitot Cover

- Close Flight Plan Gust Lock
- Hobbs Time note Check Under Seats
- Post-Flight Walkaround Canpoy/Door - lock
 - Flooded Engine
- Mixture lean (full aft) Electric Pump - off

Throttle - 1/2 position

- When engine fires: Mags. - start
- Mixture rich (rapidly) Throttle - idle

· Finish up normal start

- Canopy/Door lock
 - Door Warning off
- N = 59 Flight Controls - correct
 - Alternate Static check Instruments - scan
- AP MET/HDG Trim - T/0

2646/2535/2205/1874 1bs

VSO = 49, VS1 = 52

▶ Weights

- Fuel Selector fullest
- GPS/Status Bar/Ann. Test Hdg./Alt. Bugs

Climb(T/0) = L7/LL/LD/54

► Vy(Up) = 76/73/68/60

Vg = 76/73/68/60

- MFD Range/Track Up
- Comm/Nav/VOR/FP
- Mixture rich
- Throttle 2000 RPM
- Cycle Prop x3 250-500 Mags. L/R - -1,75, +/-50 Alternate Air - check

Engine Inst. - check

Throttle - 1000 RPM

Idle Check

Mixture - lean

• LDG - 73/71/63/58

17/0 - 74/72/LL/59

01/87/27/12 - dn 4

Approach Speeds

- .yes 111 @ 2284-2646 MÄM 40-227
 - · no 108 @ 2161-2535
 - below 2161/2284 94
- ▶ Steep Turn: <=45°, >=68

Flaps - UP Airspeed = 76-60 KIAS Mixture - rich >5000 hold const. EGT Prop - 2400 RPM Thmottle - full Engine Inst green Trim - as required High Altitude - pump on Cruise Flaps - UP Throttle - 21-24" Prop - 1800-2400 RPM Mixture Higher Power - richen Economy: max EGT & <=75% Best: 100°F (55°C) lower High Altitude - pump on Flow Check (~15 min) Trim, Fuel (Switch tanks) Mixture/Prop/Throttle Flaps, Engine Inst. Pump, Mag., Master CHT: 150-400°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 "Lights Camera Action" Electric Pump - on Mixture/Prop/Throttle Engine Inst green Vr - 5% then 67-60 KIAS Safe Altitude Prop - 2400 RPM Pump - off Lights - as required Lights - as required Lights - as required Climb T/O: Vy = 67-54 KIAS L& minus 1.8 per 100 lbs under 2646
Safe Altitude Prop - 2400 RPM Pump - off Lights - as required (ruise Climb Post-Landing Throttle - 1000 RPM Mixture - lean Flaps - UP Electric Pump - off Pitot Heat - loud RPM Pitot H	Mixture - richen slowly Throttle - as required Prop - 1800-2400 RPM High Altitude - pump on CHT (cool Down <= 500F(22.8°C) per min. Pre-Landing ATIS/Rwys & Patterns "(CGUMPSF" G Fuel Selector downwind/fullest "M Mixture - rich Prop - high RPM Prop - high RPM Pump - on S Seat Belts - secure F Flaps - as required T/0 <108 KIAS LDG <91 KIAS LDG <91 KIAS Trim - as required Lights - as required Approach - 73-58 KIAS Go Around Throttle - full Vy - b7-54 KIAS Flaps - T/0
ows ch	Mixture - full/check Pump - on Alternate Air - on Mags check all Glide and Trim Speed: 7b-60 KIAS Windmill: 1:8.8. 1.45nm/1kft Stationary: 1:10.3. 1.7nm/1kft Wind and Landing Site Longer Flow Engine Inst. Short Flow Again Windmill Restart Airspeed >= 70 KIAS Mags both Mixture - lean then slowly richen Stationary Restart Airspeed >= 80 KIAS Mags off Avionics - off Mags start No Restart Fuel Selector - off Fuel Selector - off
Pre-Start Doors - secure Belts/Seat Track Belts/Seat Track Brakes - check, set Circuit Brkrs check Passenger - brief Beacon - on Avionics - off Fuel - both Start Stby. Battery - test/arm Engine Ind no Xs Volts - [[E>24]] [[M<].5]] Amps - S<[J/ann on Prime: Mixture - idle cutoff Brakes - secure Master - on Throttle - slight Aux. Pump - on Mixture - prime warm: []-3 sec cold: 3-5 sec Aux. Pump - off	C172S-G1000 (Ted v1.2) 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 Flaps - down Lights/Pitot - test Avionics on/off - fans Master - off Hobbs Time - note Caps/Drains/Vents Surfaces/Controls Exhaust/Antennas Prop/Belt/Air Intake Pitot/Static/Stall Gear/Tires/Brakes Ties/Baggage Door Final Walkaround
<pre> AP - MET/HDG Trim - takeoff Fuel - on/both Hdg./Alt. Bugs GPS/Status Bar/Ann. Test MFD Range/Track Up Comm/Nav/VOR/FP Mixture - rich Throttle - 1,600 RPM Mags 150, 50 Engine Inst check Idle Check Idle Check Idle Check Inthick - as required ADSB Handheld - on Pre-Takeoff Abort Plan/Lost Comm. Fuel - on/both Flaps - 0-1,0° Mixture - rich Aux. Pump - off Pitot heat - as required Review Airspeeds Time - note/start </pre>	<pre>Mixture - 3/4 rich Prop Clear!" Mags - start Throttle - 1000 RPM Oil Pressure - 30 secs. Volts/Amps - [>26] [>0] Mixture - lean for taxi Pre-Taxi Flaps - up Lights - as required Avionics - on/set GPS - DB date Fuel Totalizer - enter ATIS - PFD/backup/AP(?) Radio - test Transponder - squawk Check - TC/AI/HSI<->MC Clearance - obtain Brakes - test Prakes - set Seat Belts - check Doors/Windows - secure Flight Controls - correct Instruments - scan Alternate Static - check</pre>
• F: Flaps - as • Trim - as requ • Ldg. Light - o • Approach - &O • Throttle - 1000 • Mixture - lean • Flaps - up • Pitot Heat - o • Trim - takeoff • Lights - as re • Clearance - obf • Lights - off • Lights - off • Lights - off • Mags off th • Mags key ou • Master - off • Tach Time - no • Stby. Battery.	Takeof "Lights, Camera "Mixture/Thrott Engine Inst Vr - 55 kts Vx - 62 kts, V Climb / C Climb / C Climb - I Flaps - up Mixture - lean Flow Check (~ Flow Check (~ Flaps, Engine Mixture, Throt Mixture - riche Mixture - riche Mixture - riche Mixture - riche Flow Check Pre-Land ATIS/Rwys & Pat "CCGUMPSF" G: Fuel - on/ M: Mixture - S: Seat Belts

▶ Approach - 80-65 kts ▶ Ldg· Light - on ▶ Trim - as required

• F: Flaps - as required • S: Seat Belts - secure • G: Fuel - on/both

M: Mixture - rich

► ATIS/Rwys & Patterns

Pre-Landing

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

Master, Mag., Pump

Descent

• Flaps, Engine Inst.

• Mixture, Throttle

▶ Cruise Climb - 75-85 kts

Climb / Cruise

▶ Engine Inst· - green

Mixture/Throttle

▶ Vx - Ы2 kts, Vy - 74 kts

▶ "Lights, Camera, Action"

▶ Throttle - 1000 RPM

Post-Landing

▶ Pitot Heat - off ▶ Flaps - up

▶ Stby. Battery - off ▶ Tach Time - note ▶ Mags. - off then both

Mixture - idle cutoff

Mags• - key out

▶ Throttle - 1888 RPM

ELT - check (121.5)

Shutdown

▼ Clearance - obtain ▶ Lights - as required