Post-Flight

- ADSB Handheld off
- Tiedowns/Chocks
 - Pitot Cover
- Fuel switch to L/R
- - Close Flight Plan Gust Lock
- 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/1000f1
- Wind and Landing Site
 - - Engine Indicators Longer Flow

Short Flow Again

• Mixture - idle cut-off

Fuel - off

No Restart

Prop/Throttle - off

- Exhaust/Antennas

- Ties/Chocks
-)► Rear Door secure
- - ▼ Seat Belts

► Approach - 80/70/65 kts

Belt and Seat - check

Unlatch Door

Master - off

Mags. - off

- check . Circuit Brkrs.

GPS/Status Bar/Ann. Test

Hdg./Alt. Bugs

MFD Range/Track Up

Comm/Nav/V0R/FP Mixture - rich

Fuel Selector - fullest

- . Fuel Selector least

- ▶ Prime
- Prop high RPM
- Master Bat. on
- Throttle 1.2"
- · Electric Pump on

Lights - as required

ADSB Handheld - on

Mixture - 1-3 sec

Ground Operations

.Throttle - 0.4"

"Prop (lear!" ▶ Mags. - start

- ► Papers A.R.O.W.
- Oil Pressure 15 secs . Throttle - 1000 RPM ► Controls - free & correct
 - ▼ Mags. key out
- √ Mixture idle cutoff
 - Electrical off ► Throttle - idle
 - - Essential Bus off Avionics - off
- Master on
- Fuel Pump check
- ► Flaps check & set T/0 ▶ Fuel - note

► Flaps - up, then T/0 Lights - as required

Avionics - on/set

GPS - JB date

- Lights/Pitot test ► Master - off
- ► 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

 - Prop/Air Intakes x3
 - Pitot/Static/Stall
 - . Gear/Tires/Brakes
- ▶ Final Walkaround

- - Rudder Pedals adjust
- Parking/Brakes test/set
- Strobe (ACL) on
- Avionics off
- ► 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

- Mixture idle cutoff
- Friction adjust

- Mixture 3-5 sec DA40-G1000 (Ted Yin v0.7)
- Avionics off

ELT - check (121.5)

• ACL Strobes - on

Electrical - off

- Mags. off then both Throttle - 1000 RPM
 - Mixture idle cutoff Mags. - key out
 - Tach Time note Master - off

Post-Fligh

ADSB Handheld - of

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

Engine Inst. - no Xs

Electric Pump - off

Master Alt. - on

► Mixture - lean (peak)

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

۱۲ = 59

Check - TC/AI/HSI<->MC

Transponder - squawk

Brakes - release/test

Clearance - obtain

Parking Brake - set

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

- . 2646/2535/2205/1874 1bs Weights
- Vy(Up) = 76/73/68/60 $V_9 = 7L/73/Lb/L0$
- $V_{y}(T/0) = L7/LL/L0/54$
 - Approach Speeds
- 01/84/E2/47 dn •
- T/0 74/72/66/59
- LDG 73/71/63/58
 - Flight Controls correct
- MÄM 40-227

Alternate Static - check

AP - MET/HDG Trim - T/0

Instruments - scan

- .yes 111 @ 2284-2646 · no - 108 @ 2161-2535
 - below 21,61,72284 94

▼ Trim - as required ▶ Engine Inst· - green Mixture - rich ▼ Prop - 2400 RPM ▼ Vy (T/0) ▶ Safe Altitude ▶ Pitot Heat - as required ▶ Electric Pump - on Mixture - rich ▼ Mixture ▶ Prop - 1800-2400 RPM ▶ Throttle - full Vr - 59; then 67-60 KIAS ▶ Engine Inst· - green ▶ Flaps - T/0 In-Flight Operations Elect. Pump - off • Economy: max EGT & <=75% • >5000 hold const. EGT • Vy: 76-60 KIAS • 68 minus l∙8 for each • 67-54 KIAS Ldg. Light - off Prop - 2400 RPM Higher Power - richen • Flaps - up Mixture/Prop/Throttle Prop - high RPM Throttle - 21-24" High Altitude - pump on (ruise Review Airspeeds Canopy/Door - lock Flaps - up "Lights, Camera, Action" Fuel Selector - fullest Abort Plan/Lost Comm. Time - note/start 100 lbs under 2646 Pre-Takeoff Takeoff ▶ High Altitude - pump or ▼ Ldg• Light - on ▼ Trim - as required ▼ CHT Cool Down ▶ Flow (heck Prop - 2400 RPM LDG <91 KIAS • <= 50°F/22.8°C pm Ventilation - open Lights - as required Elect. Pump - off Flaps - up Safe Altitude Vy - 67-54 KIAS Approach - 73-58 KIAS T/O <LOB KIAS Prop - 1800-2400 RPM Mixture - richen slowly Emergency Windows - open Cabin Heat - off Trim - T/0 Pitot Heat - off Mixture - lean Flaps - T/0 Throttle - full ATIS/Rwys & Patterns Throttle - as required Clearance - obtain "CCGUMPSF" F: Flaps - as required Throttle - 1000 RPM Elect. Pump - off P: Prop - high RPM Cruise (limb P: Elect. Pump - on downwind/fullest G: Fuel Selector M: Mixture - rich CO Contamination Seat Belts - secure Post-Landing Go Around ▼ Stationary Restart ▶ Windmill Restart ▶ Longer Flow No Restart Wind and Landing Site ▶ Glide and Trim Short Flow Again • Fuel Selector - off Mags. - start Airspeed >= 80 KIAS Airspeed >= 70 KIAS Engine Inst. Speed: 76-60 KIAS • Mags· - check all Elect. Pump - on Mixture - full/check Unlatch Door • Windmill: 1:8.8, Alternate Air - on Electrical - off Master - off Mags. - off Master - on Avionics - off Short Flow Stationary: 1:10.3, slowly richen Mixture - lean and Mags. - both 1.45nm/1kft 1.7nm/1kft

- Papers A.R.O.W.

· Power: 100°F/55°C lower

▶ Flow Check (\$\sum_15 min)

Forward Canopy

partially open

DO NOT lock/unlock rear

door during flight

Engine Failure

- Trim, Fuel
- Mixture, Prop, Throttle
- Pump, Mag, Master • Flaps, Engine Inst.
- ▼ (HT: 150-400°F
- 0il: 165-220°F
- ▶ Short Flow Fuel Selector - fullest

- Mixture idle cutoff
- Belt and Seat check

(1725-G1000 (Ted v1.2)

Initial

- 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
- Hobbs Time note Master - off

Walkaround

- Fuel/0il dip/sample Caps/Drains/Vents
- Surfaces/Controls
- Exhaust/Antennas
- Pitot/Static/Stall Prop/Belt/Air Intake
- Gear/Tires/Brakes
- Final Walkaround Ties/Baggage Door

Alternate Static -Instruments - scan Flight Controls - correct

check

AP - MET/HDG

Pre-Start

Belts/Seat Track Doors - secure

Hdg./Alt. Bugs Fuel - on/both Trim - takeoff

- Brakes check, set
-) ► Circuit Brkrs• check Passenger - brief
- Beacon on
- Avionics off
- Fuel both

Start

Engine Inst. - check Mags. - 150, 50 Throttle - 1800

Idle (heck

- Stby. Battery test/arm
- Engine Ind· no Xs
- ▼ Volts [E>24] [M<1.5] Amps - S<0/ann on
- Prime:
- Mixture idle cutoff
- Brakes secure
- Master on Throttle - slight
- Mixture prime Aux · Pump - on
- · warm: 0-3 sec · cold: 3-5 sec
- Aux. Pump off

- Mixture 3/4 rich
- ► "Prop (lear!" Mags. - start

▶ Throttle - 1000 RPM

- ▶ 0il Pressure 30 secs
- Mixture lean for taxi Volts/Amps - [>26] [>0]

Vx - b2 kts, Vy - 74 kts

▶ Engine Inst· - green

Vr - 55 kts

Mixture/Throttle

Pre-Taxi

- Flaps up
- Avionics on/set Lights - as required

► Mixture - lean >3000

• Flaps - up

▶ Cruise Climb - 75-85 kts

Climb / Cruise

▶ Flow Check (∼15 min)

• Flaps, Engine Inst.

• Fuel₁ Trim

Mixture, Throttle

Master, Mag., Pump

- Fuel Totalizer enter GPS - DB date
- ATIS PFD/backup/AP(?)
- Transponder squawk Radio - test
- Check TC/AI/HSI<->MC Clearance - obtain

Brakes - test

▶ Flow Check Throttle - as required

Pre-Landing

Mixture - richen slowly

"CCGUMPSF" ATIS/Rwys & Patterns

Doors/Windows - secure

Seat Belts - check Brakes - set

- G: Fuel on/both
- M: Mixture rich
- F: Flaps as required • S: Seat Belts - secure
- ▼ Trim as required
- ▶ Ldg· Light on
- Test Approach - 80-65 kts
- Throttle 1000 RPM Post-Landing
- Mixture lean

Mixture - rich Comm/Nav/VOR/FP MFD Range/Track Up GPS/Status Bar/Ann.

- RPM

- ▶ Flaps up
- ▶ Pitot Heat off

Trim - takeoff

Lights - as required Clearance - obtain

▶ Lights - off

Avionics - off

ELT - check (121.5)

Shutdown

Beacon - on

Lights - as required

ADSB Handheld - on

Mixture - lean Throttle - 1000 RPM

- Abort Plan/Lost Comm.
- ▶ Flaps D-10° Fuel - on/both

▶ Mags· - off then both

▶ Throttle - 1888 RPM

Mixture - idle cutoff

- Mixture rich
- Pitot heat as required Aux. Pump - off
- Review Airspeeds Time - note/start

▶ "Lights, Camera, Action"

- ▼ Tach Time note

Master - off

Mags. - key out

▼ Stby. Battery - off