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

▶ Pitot Heat - as required ▶ Electric Pump - on ▶ Mixture - rich Flaps - T/0 In-Flight Operations Prop - high RPM Canopy/Door - lock Review Airspeeds Fuel Selector - fullest Abort Plan/Lost Comm. Time - note/start Pre-Takeoff ▶ 0il: 165-220°F ▼ Flow (heck ▼ High Altitude - pump or <= 50°F(22.8°C) per min.</p> ATIS/Rwys & Patterns CHT Cool Down Throttle - as required Prop - 1800-2400 RPM Mixture - richen slowly Pre-Landing

S: Seat Belts - secure P: Prop - high RPM G: Fuel Selector P: Elect. Pump - on M: Mixture - rich downwind/fullest ► Longer Flow ▶ Short Flow ■ Windmill Restart Glide and Trim Short Flow Again Speed: 76-60 KIAS Engine Inst. Elect. Pump - on 1.7nm/lkft 1.45nm/1kft

Go Around

▶ Lights - as required ▼ Trim - as required

Approach - 73-58 KIAS

 Vy = 76-60 KIAS ▼ Safe Altitude ▼ Throttle - full Prop - 2400 RPM Flaps - T/0 Vy - 67-54 KIAS

▼ (ruise

under 出兆

• Flaps - up

▶ Prop - 2400 RPM ▶ Throttle - full • >5000 hold const. EGT

> Cruise (limb Elect. Pump - off

Mixture - rich

▶ Engine Inst· - green

▼ Trim - as required

High Altitude - pump on

Flaps - up

Throttle - 21-24"

▼ Mixture

• Economy: max EGT & <=75%

▶ Flow Check (~15 min) ■ Trim, Fuel

Prop - 1800-2400 RPM

Higher Power - richen

• Flaps, Engine Inst.

• Pump, Mag., Master

CHT: 150-400°F

Fuel Selector - fullest

Alternate Air - on

Mags. - both

F: Flaps - as required

· T/O <LOB KIAS

· LDG <91 KIAS

Mixture - lean then

• Airspeed >= 80 KIAS

Electrical - off

Master - on

No Restart

 Fuel Selector off

Mags. - off

Master - off

Unlatch Door

Throttle - 1000 RPM

Mixture - lean Flaps - up

Elect. Pump - off

Pitot Heat - off Trim - T/O

Lights - as required Clearance - obtain

CO Contamination

· Power: 100°F/55°C lower

▶ High Altitude - pump on

• Mixture, Prop, Throttle

Forward Canopy

Emergency Windows - open Ventilation - open Cabin Heat - off

partially open DO NOT lock/unlock rear door during flight

Mixture - full/check

• Mags· - check all

• Windmill: 1:8.8,

Stationary: 1:10.3,

▶ Wind and Landing Site

Airspeed >= 70 KIAS

▶ Safe Altitude

Elect. Pump - off

Prop - 2400 RPM

Lights - as required

Vr - 59; then 67-60 KIAS ▶ Engine Inst· - green

Mixture/Prop/Throttle

"Lights, Camera, Action"

slowly richen

Stationary Restart

▼ | | |

Vy = 67-54 KIAS

·ЫВ minus l.B per

100 lbs

Avionics - off

Mags. - start

Mixture - idle cutoff

Belt and Seat - check

(1725-G1000 (Ted v1.2)

Initial

Papers - A.R.O.W.

Control Lock - off

Mixture - idle cutoff Mags. - key out

Throttle - idle

Avionics - off Fuel Shutoff - on

Master - on Fuel - note

Fuel - both

Flaps - down

Avionics on/off - fans Lights/Pitot - test

Hobbs Time - note Master - off

Fuel/0il - dip/sample Walkaround

Surfaces/Controls Caps/Drains/Vents

Prop/Belt/Air Intake Exhaust/Antennas

Pitot/Static/Stall

Gear/Tires/Brakes

Final Walkaround Ties/Baggage Door

Pre-Start

Belts/Seat Track Doors - secure

Brakes - check, set

▼ Circuit Brkrs• - check

Avionics - off Beacon - on Passenger - brief

Fuel - both

Start

Stby. Battery - test/arm

Engine Ind· - no Xs

▼ Volts - [E>24] [M<].5] Amps - S<0/ann on

Mixture - idle cutoff

Brakes - secure

Master - on Throttle - slight

Mixture - prime Aux · Pump - on · warm: 0-3 sec

Aux. Pump - off

· cold: 3-5 sec

Mixture - 3/4 rich

► "Prop (lear!"

Mags. - start

▶ Throttle - 1000 RPM

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

Pre-Taxi

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

GPS - DB date

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

Check - TC/AI/HSI<->MC Clearance - obtain Transponder - squawk

Brakes - set

Brakes - test

Instruments - scan Flight Controls - correct Doors/Windows - secure Seat Belts - check

Alternate Static -AP - MET/HDG

Hdg./Alt. Bugs Fuel - on/both Trim - takeoff GPS/Status Bar/Ann. Test

Mixture - rich MFD Range/Track Up Comm/Nav/VOR/FP

Mags. - 150, 50 Throttle - 1800 RPM

Idle (heck Engine Inst. - check

Lights - as required Mixture - lean Throttle - 1000 RPM

ADSB Handheld - on

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

Pitot heat - as required Aux. Pump - off Mixture - rich

Review Airspeeds Time - note/start

▶ "Lights, Camera, Action" Mixture/Throttle

▶ Engine Inst· - green

Vx - b2 kts, Vy - 74 kts Vr - 55 kts

▶ Cruise Climb - 75-85 kts Climb / Cruise

• Flaps - up

► Mixture - lean >3000 ▶ Flow Check (∼15 min)

• Fuel, Trim

• Flaps, Engine Inst.

 Mixture, Throttle Master, Mag., Pump

Flow Check Throttle - as required Mixture - richen slowly

Pre-Landing

ATIS/Rwys & Patterns

• G: Fuel - on/both "CCGUMPSF"

• S: Seat Belts - secure M: Mixture - rich

▶ Ldg· Light - on ▼ Trim - as required • F: Flaps - as required

Approach - 80-65 kts

Throttle - 1000 RPM Post-Landing

Mixture - lean

▶ Flaps - up

▶ Pitot Heat - off Trim - takeoff

Lights - as required

Clearance - obtain

Shutdown

Avionics - off ELT - check (121.5)

▶ Lights - off

▶ Throttle - 1888 RPM Beacon - on

▶ Mags· - off then both

Mixture - idle cutoff Mags. - key out

Master - off ▼ Tach Time - note

▶ Stby• Battery - off