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/E2/45 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

▼ (HT: 150-400°F ▶ Flow Check (\$\trian \text{15 min}) ▼ Trim - as required ▶ Engine Inst· - green Mixture - rich ▼ Prop - 2400 RPM Vy (T/0) ▶ Pitot Heat - as required ▶ Electric Pump - on Mixture - rich ▼ Mixture ▶ Prop - 1800-2400 RPM ▶ Throttle - full ▼ Safe Altitude Vr - 59; then 67-60 KIAS ▶ Engine Inst. – green ▶ Flaps - T/0 In-Flight Operations Elect. Pump - off Pump, Mag, Master • Mixture, Prop, Throttle • Trim, Fuel • Economy: max EGT & <=75% • >5000 hold const. EGT • Vy: 76-60 KIAS • 68 minus l∙8 per lOO lbs ▶ Throttle - full • 67-54 KIAS Lights - as required Prop - 2400 RPM • Flaps, Engine Inst. Higher Power - richen Flaps - up · Power: 100°F/55°C lower 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 Time - note/start Abort Plan/Lost Comm. under 2646 Pre-Takeoff ▶ Trim - as required ► CHT Cool Down ▼ Safe Altitude ► Flaps - T/0 Vy - 67-54 KIAS ▶ Flow (heck ▼ High Altitude - pump or • <= 50°F/22.8°C pm Prop - 2400 RPM F: Flaps - as required Ventilation - open Cabin Heat - off Elect. Pump - off Flaps - up Lights - as required ATIS/Rwys & Patterns Prop - 1800-2400 RPM Mixture - richen slowly Forward (anopy Emergency Windows - open Lights - as required Trim - T/O · LDG <91 KIAS · T/O <108 KIAS Throttle - as required Pitot Heat - off Mixture - lean Approach - 73-58 KIAS "CCGUMPSF" Clearance - obtain Throttle - 1000 RPM Cruise (limb Elect. Pump - off downwind/fullest G: Fuel Selector DO NOT lock/unlock rear partially open P: Prop - high RPM P: Elect. Pump - on M: Mixture - rich door during flight CO Contamination Seat Belts - secure Engine Failure Go Around ► Stationary Restart ▶ Wind and Landing Site No Restart ▶ Windmill Restart ▶ Longer Flow Glide and Trim • Mags. - start Short Flow Again Speed: 76-60 KIAS • Fuel Selector - off • Electrical - off Airspeed >= 80 KIAS Engine Inst. • Windmill: 1:8.8, Mixture - full/check Fuel Selector - fullest Unlatch Door Mixture - idle cutoff Avionics - off Airspeed >= 70 KIAS Mags. - check all Mags. - off Brace Master - off Master - on slowly richen Mixture - lean and Alternate Air - on Elect· Pump - on Belt and Seat - check Mags. - both Short Flow Stationary: 1:10.3, 1.45nm/1kft 1.7nm/lkft)▶ Circuit Brkrs• - check ▶ Throttle - idle (1725-G1000 (Ted v1.2) ▼ Volts - [E>24] [M<l.5] Lights/Pitot - test Brakes - secure Avionics - off Aux. Pump - off Mixture - prime Aux · Pump - on Engine Ind· - no Xs Avionics - off Fuel Shutoff - on · warm: 0-3 sec Stby. Battery - test/arm Passenger - brief Caps/Drains/Vents Fuel/0il - dip/sample Avionics on/off - fans Flaps - down Master - on Fuel - both Mixture - idle cutoff Control Lock - off · cold: 3-5 sec Mixture - idle cutoff Amps - S<0/ann on Fuel - both Beacon - on Brakes - check, set Belts/Seat Track Doors - secure Final Walkaround Ties/Baggage Door Gear/Tires/Brakes Pitot/Static/Stall Prop/Belt/Air Intake Exhaust/Antennas Surfaces/Controls Hobbs Time - note Master - off Fuel - note Mags. - key out Papers - A.R.O.W. Master - on Throttle - slight Walkaround Pre-Start Start Initial Mixture - 3/4 rich ▶ Flaps - D-10° ▶ 0il Pressure - 30 secs ► "Prop (lear!" Lights - as required ▶ Throttle - 1000 RPM Review Airspeeds Mixture - rich ATIS - PFD/backup/AP(?) Lights - as required Pitot heat - as required Aux. Pump - off Engine Inst. - check Mags. - 150, 50 Throttle - 1800 Hdg./Alt. Bugs Fuel - on/both Trim - takeoff Alternate Static -Instruments - scan Flight Controls - correct Check - TC/AI/HSI<->MC Fuel Totalizer - enter GPS - DB date Avionics - on/set Flaps - up Mixture - lean for taxi Volts/Amps - [>26] [>0] Mags. - start Time - note/start Fuel - on/both Abort Plan/Lost Comm. Mixture - lean Throttle - 1000 RPM Idle (heck Mixture - rich Comm/Nav/VOR/FP MFD Range/Track Up GPS/Status Bar/Ann. AP - MET/HDG Doors/Windows - secure Brakes - test Clearance - obtain Transponder - squawk Radio - test Seat Belts - check Brakes - set ADSB Handheld - on Pre-Taxi RPM

▶ Flow Check

Throttle - as required Mixture - richen slowly ▶ "Lights, Camera, Action"

Vx - b2 kts, Vy - 74 kts

▶ Engine Inst· - green

Vr - 55 kts

Mixture/Throttle

► Mixture - lean >3000

• Flaps - up

▶ Cruise Climb - 75-85 kts

Climb / Cruise

▶ Flow Check (∼15 min)

• Flaps, Engine Inst.

■ Fuel, Trim

Mixture, Throttle

Master, Mag., Pump

Test

▶ Ldg· Light - on ▼ Trim - as required

Approach - 80-65 kts

• F: Flaps - as required

• S: Seat Belts - secure

• G: Fuel - on/both

"CCGUMPSF"

ATIS/Rwys & Patterns

Pre-Landing

M: Mixture - rich

▶ Flaps - up

Mixture - lean

Throttle - 1000 RPM

Post-Landing

▶ Pitot Heat - off

Trim - takeoff

Lights - as required

Clearance - obtain

0il: 165-220°F

Short Flow

Master - off

Mags. - key out

▼ Tach Time - note

▶ Stby• Battery - off

▶ Mags· - off then both

▶ Throttle - 1888 RPM

Mixture - idle cutoff

▶ Lights - off

Avionics - off

ELT - check (121.5)

Shutdown

Beacon - on