DA40-G1000 (Ted Yin v0.6)

Initial

- ► Papers A.R.O.W.
- ► Controls free & correct ► "Prop Clear!"
 - ▶ Mags. start
 - ► Mags. key out
 - ▶ Throttle idle
- → Mixture idle cutoff ► Essential Bus - off
- ► Avionics Master off
 - ▶ Electrical off
- ► Master on
- ▼ Fuel Pump check
- ► Fuel note
- ► Flaps check & set T/0 ► Lights/Pitot - test
 - ► Master off

► Flaps - up, then T/0

Pre-Taxi

• Lights - as required

Avionics - on/set

GPS - DB date

► Hobbs Time - note

- ► Canopy/Door clean/lock)► Fuel/0il - test/sample
- ► Caps/Drains/Vents
- ▼ Surfaces/Controls
- Stall Strips/Fairings

Check - TC/AI/HSI<->MC

Clearance - obtain

Transponder - squawk

Radio - test

Brakes - release/test

- Exhaust/Antennas
 - ► Prop/Air Intakes x3
- - Pitot/Static/Stall
 - Gear/Tires/Brakes
- Ties/Chocks
 - ▶ Final Walkaround

Pre-Start

- Number Pedals adjust ▶ Rear Door - secure
 - /▶ Seat Belts
- Parking/Brakes test/set
 - Circuit Brkrs. check
 - Passenger brief
 - ► Strobe (ACL) on

Avionics - off

- ► Fuel Selector least
 - ► Canopy pos· 1/2

Start

- ▶ Prime
- Mixture idle cutoff
 - Friction adjust Prop - high RPM
- Alternate Air close
- Alt. Static close
 - Master Bat. on
 - Throttle 1.2"
 - Electric Pump on

Lights - as required

ADSB Handheld - on

Mixture - 1-3 sec

► Abort Plan/Lost Comm.

► Canopy/Door - lock

Trim - T/0

- ·Mixture 3-5 sec
- · Throttle 0.4"
- ► Fuel Selector fullest Mixture - rich Throttle - 1000 RPM
 - Prop high RPM ► Flaps - T/0

• Oil Pressure - 1.5 secs.

Electric Pump - off

Master Alt. - on

- Pitot Heat as required Electric Pump - on
 - ▼ Review Airspeeds
- "Lights, Camera, Action" ▶ Time - note/start Volts/Amps - [25-30] [>0] Fuel Pressure - 14-35 psi ► Mixture - lean (peak) Engine Inst. - no Xs

Vr - 59; then 67-60 KIAS Mixture/Prop/Throttle Engine Inst. - green

- Prop 2400 RPM Safe Altitude
- Elect. Pump off ATIS - PFD/backup/AP(?) Fuel Totalizer - enter
- Ldg. Light off

- 67-54 KIAS (0/T) Vy •
- 68 minus l∙8 for each 100 lbs under 2646
- Flaps up **Cruise**
 - Seat Belts check

Parking Brake - set

- Vy: 76-60 KIAS Door Warning - off Canopy/Door - lock
 - ▶ Prop 2400 RPM Flight Controls - correct
- ▼ Mixture rich
- >5000 hold const. EGT
- Engine Inst. green

Throttle - full

Alternate Static

Instruments

AP - MET/HDG

Trim - T/0

Trim - as required Fuel Selector - fullest

► High Altitude - pump on

Flaps - up

GPS/Status Bar/Ann. Test

Hdg./Alt. Bugs

MFD Range/Track Up

- ► Throttle 21-24"
- Prop 1,800-2400 RPM
 - Mixture
- . Economy: max EGT & <=75% • Higher Power - richen

Cycle Prop x3 - 250-500

Throttle - 2000 RPM

Mixture - rich Comm/Nav/V0R/FP

Alternate Air - check

Engine Inst. - check

Throttle - 1000 RPM

Idle Check

Mixture - lean

Mags. L/R - 175, 50.

- .Power: 100°F/55°C lower ► Flow Check - ◆15 min Trim, Fuel
- Flaps, Engine Inst.

• Mixture, Prop, Throttle

- Pump, Mag, Master CHT: 1,50-400°F
 - ▼ 0il: 145-220°F

▶ F: Flaps ▶ Throttle - 1000 RPM ▶ Electrical - off ▶ Avionics - off ▶ Ldg· Light - on ► CHT Cool Down Mixture - idle cutoff ▶ Mags· - off then both ▶ ELT - check (121.5) ▶ Parking Brake - set ▶ Flaps - up ▶ Throttle - 1000 RPM ▼ Safe Altitude ▶ Throttle - full ▼ Trim - as required ▶ S: Seat Belts - secure ▶ Flow (heck ▶ High Altitude - pump on ▶ Throttle - as required ▶ Prop - 1800-2400 RPM ▶ Mixture - richen slowly LDG <9L KIAS • <= 50°F/22.8°C pm ACL Strobes - on Prop - 2400 RPM • T/O <108 KIAS downwind/fullest Lights - as required Elect. Pump - off Mixture - lean Mags. - key out Trim - T/0 Pitot Heat - off Flaps - T/0 Vy - 67-54 KIAS Approach: 73-58 KIAS P: Prop - high RPM M: Mixture - rich G: Fuel Selector "CCGUMPSF" ATIS/All Rwys & Patterns Clearance - obtain Transponder - off/stby. Elect. Pump - off Cruise Climb Elect. Pump - on Post-Landing Pre-Landing Go Around Shutdown ▶ Check Under Seats ▶ Hobbs Time - note Ventilation - open ► Stationary Restart ▶ Short Flow ■ Wind Restart ▶ Glide and Trim ▼ Tiedowns/Chocks Airspeed >= 70 KIAS • Mags· - check all Airspeed >= 80 KIAS Short Flow Again Engine Inst. • Ratio: 8.8, 1.45nm/lkft Speed: 76-60 KIAS Elect. Pump - on • Fuel Selector - fullest Fuel Selector - off Mags. - start Master - on Short Flow Emergency Windows - open Mixture - idle cutoff No Restart Longer Flow Wind and Landing Site Alternate Air - on Post-Flight Walkaround Canpoy/Door - lock Close Flight Plan Gust Lock Pitot Cover Parking Brake - release ADSB Handheld - off Master - off Tach Time - note Forward Canopy Cabin Heat - off Brace Mags. - off Electrical - off Unlatch Door Belt and Seat - check Master - off Avionics - off slowly richen Mixture - lean and Mags. - both Mixture - full/check CO Contamination Engine Failure Post-Flight Approach Speeds ▶ Best Glide ▼ \ \ ▼ Vr - 59 ▶ Weights Engine Out • 101 @ 2300 lbs below 2161/2284 - 94 MÄM +0-227 • 70 a 2300 lbs • T/0 - 67/66/60/54 • Up - 76/73/68/60 · 76/73/68/60 2646/2535/2205/1874 1bs partially open · up - 76/73/68/60 · yes - 111 @ 2284-2646 · no - 108 @ 2161-2535 · LDG - 73/71/63/58 · T/0 - 74/72/16/59 DO NOT lock/unlock rear Normal - 73/71/63/58 door during flight Airspeeds (KIAS)