# DA40-G1000 (Ted Yin v0.6)

### Initial

- ► Papers A.R.O.W.
- Oil Pressure 15 secs. ► Controls - free & correct ► Throttle - 1,000 RPM
  - ► Mags. key out
  - ► Electric Pump off
  - . Master Alt. on ▶ Mixture - idle cutoff
    - Throttle idle
      - ▶ Electrical off
- Essential Bus off

Fuel Pressure - 14-35 psi

Engine Inst. - no Xs

► Mixture - lean (peak)

- ◆ Avionics off
- Master on
- Fuel Pump check
- ▶ Fuel note

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

Pre-Taxi

- ► Flaps check & set T/0
- ► Lights/Pitot test ► Master - off
- ► Hobbs Time note

- )► Fuel/0il test/sample ► Canopy/Door - check
  - ► Caps/Drains/Vents
    - Surfaces/Controls
- - Stall Strips/Fairings
    - Exhaust/Antennas
- ► Prop/Air Intakes x3

Parking Brake - set

Seat Belts - check

Door Warning - off

Canopy/Door - lock

- Pitot/Static/Stall
- Gear/Tires/Brakes
- ▼ Ties/Chocks
  - ▶ Final Walkaround

## Pre-Star

- Rudder 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

- ▶ Prime
- Mixture idle cutoff
  - Prop high RPM
    - Friction adjust Master Bat. - on
- Throttle 1.2"
- Electric Pump on
- Warm
- ·Mixture 1-3 sec
- ·Mixture 3-5 sec

Ventilation - open

Cabin Heat - off

- .Throttle 0.4"
  - "Prop (lear!"

Mags. - start

▶ Forward Canopy

partially open

► Emergency Windows - open

- D0 N0T lock/unlock rear
- door during flight

### Shutdown

- ▶ ELT check (121.5) ▶ Electrical - off ► Avionics - off Volts/Amps - [25-30] [>0]
- ► Throttle 1000 RPM ACL Strobes - on
- Mags. off then both
  - Mixture idle cutoff Mags. - key out
    - Tach Time note

Avionics - on/set

GPS - DB date

## Master - off

- ADSB Handheld off Post-Flight ATIS - PFD/backup/AP(?) Fuel Totalizer - enter
- Tiedowns/Chocks Transponder - squawk

Radio - test

- Check TC/AI/HSI<->MC
- Pitot Cover
- Close Flight Plan

Brakes - release/test

Clearance - obtain

Gust Lock

- Hobbs Time note
- Check Under Seats
- Canpoy/Door lock
- Post-Flight Walkaround

## Weights

- 2646/2535/2205/1.874 lbs Flight Controls - correct
- 小・3

Instruments - scan

AP - MET/HDG Trim - T/0

- Alternate Static check
- Up 76/73/58/50
- T/0 67/56/59
  - ▶ Best Glide

Fuel Selector - fullest

Hdg./Alt. Bugs

- 76/73/68/60
- 70 @ 2300 lbs

GPS/Status Bar/Ann. Test

MFD Range/Track Up

Comm/Nav/V0R/FP Mixture - rich

- MÄM 40-227
- · no 108 @ 2161-2535
- .yes 1,1,1 @ 2284-2646
  - below 2161/2284 -

Cycle Prop x3 - 250-500

Throttle - 2000 RPM

Alternate Air - check

Engine Inst. - check

Mags. L/R - 175, 50.

- . 1.01, 0 2300 1bs
- Approach Speeds Engine Out
- . Up 76/73/68/60
- · T/0 74/72/559
- Normal 73/71/63/58 · LDG - 73/71/63/58
- CO Contamination

Lights - as required

ADSB Handheld - on

Throttle - 1000 RPM

Idle Check

Mixture - lean

### ▶ Flow Check ( ~15 min) ▶ Flaps - up ▶ High Altitude - pump on ► CHT: 120-400°F ▼ Mixture ▶ Prop - 1800-2400 RPM ▶ Throttle - Zl-Z4™ ▶ Trim - as required ▶ Engine Inst· - green ▶ Throttle - full Mixture - rich ▶ Prop - 2400 RPM √ Cruise Vy (T/0) Elect. Pump - off ▶ Safe Altitude ▶ Vr - 59; then 67-60 KIAS ▶ Engine Inst· - green ▶ Pitot Heat - as required ▶ Electric Pump - on ▶ Prop - high RPM Mixture - rich ▶ Flaps - T/0 ▼ Fuel Selector - fullest ▼ Canopy/Door - lock • >5000 hold const. EGT Ldg. Light - off • Flaps - up • 67-54 KIAS Pump, Mag, Master • Flaps, Engine Inst. • Mixture: Prop: Throttle • Trim, Fuel • Economy: max EGT & <=75% • Higher Power - richen • Vy: 76-60 KIAS • 68 minus l∙8 for each Prop - 2400 RPM Mixture/Prop/Throttle · Power: 100°F/55°C lower Review Airspeeds 0il: 165-220°F "Lights, Camera, Action" Abort Plan/Lost Comm. Time - note/start 100 lbs under 2646 (ruise ▶ Short Flow ► CHT Cool Down ▶ Throttle - as required ▶ Glide and Trim ▶ Lights - as required ▼ Trim - T/0 ▶ Pitot Heat - off ▶ Safe Altitude Flaps - T/0 ▶ Ldg· Light - on ▶ Trim - as required ► ATIS/Rwys & Patterns ▶ Flow Check ▶ High Altitude - pump or ▶ Flaps - up Mags. - check all • Ratio: 8.8, 1.45nm/lkft Speed: 76-60 KIAS Elect. Pump - on Prop - 2400 RPM • F: Flaps - as required • <= 50°F/22.8°C pm Alternate Air - on Mixture - full/check Fuel Selector - fullest Elect. Pump - off LDG <91 KIAS</li> T/O <LOB KIAS</li> • S: Seat Belts - secure P: Prop - high RPM Wind and Landing Site Elect. Pump - off Mixture - lean Cruise Climb Vy - 67-54 KIAS Approach - 73-58 KIAS Prop - 1800-2400 RPM Mixture - richen slowly Clearance - obtain Throttle - 1000 RPM "CCGUMPSF" Throttle - full P: Elect. Pump - on M: Mixture - rich downwind/fullest G: Fuel Selector Engine Failure Pre-Landing Go Aroun ▶ Wind Restart ▶ Longer Flow No Restart ▼ Stationary Restart Short Flow Again Airspeed >= 70 KIAS • Belt and Seat - check • Mags. - start Airspeed >= 80 KIAS Mags. - both Engine Inst. Brace • Fuel Selector - off Avionics - off • Electrical - off Mixture - lean and Unlatch Door Master - off Mags. - off Mixture - idle cutoff Short Flow Master - on slowly richen