# DA40-G1000 (Ted Yin v0.6)

## Initial

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

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

Engine Inst. - no Xs

• Master Alt. - on

► Mixture - lean (peak)

Pre-Taxi

- - ◆ Avionics off
    - . Master on
- ► Fuel Pump check
- ▶ Fuel note
- ► Flaps check & set T/0
- ► Lights/Pitot test
  - ► Hobbs Time note ► Master - off

- ▼ Canopy/Door check
- )▶ Fuel/0il test/sample ► Caps/Drains/Vents
  - Surfaces/Controls
  - - Stall Strips/Fairings
      - Exhaust/Antennas
- Prop/Air Intakes x3
- Pitot/Static/Stall
- Gear/Tires/Brakes
- ▼ Ties/Chocks
- ▶ Final Walkaround

# Pre-Start

- 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

► Canopy/Door - lock

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

► Mags. - start

Mixture - rich

Fuel Selector - fullest

► Flaps - T/0

- ► Prop high RPM
- Electric Pump on
- Pitot Heat as required
  - Review Airspeeds
- ► Time note/start Takeoff

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

▶ "Lights, Camera, Action"

• Prop - 2400 RPM Safe Altitude

• Elect. Pump - off

Ldg. Light - off

- ► Flaps up, then T/0 ► Lights - as required Avionics - on/set
- Fuel Totalizer enter GPS - DB date
- ATIS PFD/backup/AP(?)
  - Check TC/AI/HSI<->MC Transponder - squawk Radio - test

Clearance - obtain

• 68 minus l.8 for each

• 67-54 KIAS

(0/T) W

100 lbs under 2646

# Brakes - release/test

Parking Brake - set

· Vy: 76-60 KIAS Prop - 2400 RPM

• Flaps - up

▼ (ruise

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

>5000 hold const. EGT

Mixture - rich

- Flight Controls correct
  - Alternate Static check Instruments - scan
    - AP MET/HDG Trim - T/0

► High Altitude - pump on

► Trim - as required

Engine Inst. - green

Throttle - full

- Fuel Selector fullest Hdg./Alt. Bugs
- GPS/Status Bar/Ann. Test MFD Range/Track Up
  - Comm/Nav/V0R/FP Mixture - rich
- Throttle 2000 RPM

Economy: max EGT & <=75%

• Higher Power - richen

Prop - 1.800-2400 RPM

Mixture

► Throttle - Zl-Z4"

Flaps - up

· Power: 100°F/55°C lower

► Flow Check (~15 min)

Trim, Fuel

- Cycle Prop x3 250-500 Mags. L/R - 175, 50.
  - Alternate Air check Engine Inst. - check

Mixture, Prop. Throttle

Flaps, Engine Inst.

. Pump. Mag., Master

▼ 0il: 145-220°F ▼ CHT: 1,50-400°F

Throttle - 1000 RPM

Idle Check

Lights - as required Mixture - lean

## ADSB Handheld - on Pre-Takeoff

- Abort Plan/Lost Comm.
- Mixture richen slowly Throttle - as required Prop - 1800-2400 RPM

Pitot Heat - off Trim - T/0  Lights - as required  Clearance - obtain  Clearance - obtain  Shutdown  ELT - check (121.5)  Avionics - off  Electrical - off  Electrical - off  ACL Strobes - on  Throttle - 1000 RPM  Mags off then both  Mixture - idle cutoff  Mags key out  Tach Time - note  Master - off  ADSB Handheld - off  Tiedowns/Chocks  Pitot Cover	Go Around  Throttle - full  Vy - 67-54 KIAS  Flaps - T/O  Safe Altitude  Prop - 2400 RPM  Elect. Pump - off  Cruise Climb  Post-Landing  Throttle - 1000 RPM  Mixture - lean  Flaps - up  Elect. Pump - off	► High Altitude - pump on Flow Check CHT Cool Down <= 5DoF/22.8cC pm Pre-Landing ATIS/Rwys & Patterns "CCGUMPSF"  ■ G: Fuel Selector · downwind/fullest ■ M: Mixture - rich ■ P: Elect. Pump - on ■ P: Prop - high RPM ■ S: Seat Belts - secure ■ F: Flaps - as required ■ T/0 <1D8 KIAS ■ LDG <91 KIAS ■ Ldg. Light - on ■ Approach - 73-58 KIAS
Fuel Selector - off  Mixture - idle cutoff  Mags: - off  Masser - off  Belt and Seat - check  Unlatch Door  Brace  (O Contamination  Cabin Heat - off  Ventilation - open  Emergency Windows - open  Emergency Windows - open  Forward Canopy  partially open  PO NOT lock/unlock rear door during flight  Airspeeds (KIAS)  Weights  PLUL/2545/2205/1474 lbs	■ Short Flow Again ■ Wind Restart ■ Airspeed >= 70 KIAS ■ Short Flow ■ Mags both ■ Mixture - lean and ■ Slowly richen ■ Stationary Restart ■ Airspeed >= 80 KIAS ■ Electrical - off ■ Avionics - off ■ Mags start No Betart	■ Gust Lock ■ Close Flight Plan ■ Hobbs Time - note ■ Check Under Seats ■ Campoy/Door - lock ■ Post-Flight Walkaround ■ Engine Failure ■ Short Flow ■ Fuel Selector - fullest ■ Mixture - full/check ■ Elect. Pump - on ■ Alternate Air - on ■ Mags check all ■ Glide and Trim ■ Speed: 7b-b0 KIAS ■ Ratio: 8.8, 1.45nm/lkft ■ Wind and Landing Site ■ Longer Flow ■ Engine Inst.
		<ul> <li>Vr - 59</li> <li>Vy</li> <li>Hy</li> <li>Hy</li> <li>Best Glide</li> <li>76 - 167/166/60/54</li> <li>Best Glide</li> <li>70 a 2300 lbs</li> <li>Va</li> <li>MÄM 40-227</li> <li>no - 108 a 2161-2535</li> <li>yes - 111 a 2264-2646</li> <li>below 2161/2284 - 94</li> <li>101 a 2300 lbs</li> <li>Approach Speeds</li> <li>Engine Out</li> <li>Up - 76/73/68/60</li> <li>T/0 - 74/72/66/56</li> <li>Normal - 73/71/63/56</li> <li>Normal - 73/71/63/56</li> </ul>

▶ Pitot Cover

• 2646/2535/2205/1874 1bs