DA40-G1000 (Ted Yin v0.8a) ▶ ELT - check (121.5) Cold ► Avionics - off · Mixture - 3-5 sec Ground Operations · Throttle - 0.4" ▶ Electrical - off Initial ▶ "Prop Clear!" ACL Strobes - on ► Papers - A.R.O.W. ► Mags. - start ▶ Throttle - 1000 RPM ► Controls - free & correct ► Throttle - 1000 RPM ▶ Mags. - off then both ▶ Mags. - key out ▶ 0il Pressure - 15 secs. ▶ Mixture - idle cutoff ▶ Mixture - idle cutoff ▶ Electric Pump - off ▶ Mags. - key out ▶ Throttle - idle ▶ Tach Time - note ▶ Master Alt. - on ▶ Electrical - off ▶ Engine Inst. - no Xs ▶ Master - off ▶ Essential Bus - off ▶ Volts/Amps - [25-30] [>0] Post-Flight ► Avionics - off ▶ Fuel Pressure - 14-35 psi ► ADSB Handheld - off ▶ Master - on Mixture - lean (peak) ▶ Tiedowns/Chocks ▶ Fuel Pump - check Pre-Taxi ▶ Pitot Cover ▶ Fuel - note ▶ Gust Lock ▶ Flaps - UP₁ then T/0 ▶ Flaps - check & set T/0 ► Close Flight Plan ▶ Lights - as required ▶ Lights/Pitot - test ▶ Hobbs Time - note ▶ Avionics - on/set ▶ Master - off ▶ Check Under Seats ▶ GPS - DB date ▶ Hobbs Time - note ► Canpoy/Door - lock ▶ Fuel Totalizer - enter Walkaround ▶ Post-Flight Walkaround ► ATIS - PFD/backup/AP(?) ► Canopy/Door - check Flooded Engine ▶ Radio - test ▶ Fuel/0il - test/sample ▶ Transponder - squawk ▶ Electric Pump - off ▶ Caps/Drains/Vents ► Check - TC/AI/HSI<->MC ▶ Surfaces/Controls ► Clearance - obtain ▶ Throttle - 1/2 position ▶ Stall Strips/Fairings ▶ Brakes - release/test ▶ Mags. - start ► Exhaust/Antennas ▶ When engine fires: Run-Up ▶ Prop/Air Intakes x3 • Throttle - idle ▶ Parking Brake - set ▶ Pitot/Static/Stall Mixture - rich (rapidly) ▶ Seat Belts - check ▶ Gear/Tires/Brakes ▶ Finish up normal start ► Canopy/Door - lock ▶ Ties/Chocks ▶ Door Warning - off Airspeeds (KIAS) ▶ Final Walkaround ▶ Flight Controls - correct ▶ Vr = 59 Pre-Start ▶ Instruments - scan Weights ▶ Rear Door - secure ► Alternate Static - check • 2646/2535/2205/1874 lbs

▶ Rudder Pedals - adjust

▶ Seat Belts

▶ Parking/Brakes - test/set

▶ Circuit Brkrs. - check

▶ Strobe (ACL) - on

▶ Avionics - off

▶ Fuel Selector - least

► Canopy - pos. 1/2

▶ Passenger - brief

Start

▶ Prime

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

- ► AP MET/HDG
- ▶ Trim T/0
- ▶ Fuel Selector fullest
- ► Hdq./Alt. Bugs
- ▶ GPS/Status Bar/Ann. Test
- ▶ MFD Range/Track Up
- ► Comm/Nav/VOR/FP
- ▶ Mixture rich ▶ Throttle - 2000 RPM
- ► Cycle Prop x3 250-500
- ► Mags · L/R 175, 50.
- ▶ Alternate Air check
- ▶ Engine Inst. check
- ▶ Idle Check ▶ Throttle - 1000 RPM
- ▶ Mixture lean
- ▶ Lights as required
- ► ADSB Handheld on

Shutdown

- ▶ Mixture lean (full aft)

- Vq = 76/73/68/60
- ► Vy(Up) = 76/73/68/60
- ► Climb(T/O) = 67/66/60/54
- ► Approach Speeds
 - Up 76/73/68/60 • T/O - 74/72/66/59
- LDG 73/71/63/58 Va

 - MÄM 40-227
 - · ves 111 @ 2284-2646 ·no - 108 @ 2161-2535
 - below 2161/2284 94

```
    Mixture - full/check

In-Flight Operations
                                                           Pump - on
        Pre-Takeoff
                            Mixture - richen slowly
                            ▶ Throttle - as required
                                                          • Alternate Air - on
▶ Abort Plan/Lost Comm.

    Mags. - check all

                            ► Prop - 1800-2400 RPM
► Canopy/Door - lock
                            ► High Altitude - pump on ► Glide and Trim
▶ Fuel Selector - fullest
                                                          ■ Speed: 7L-LO KIAS
                            ► CHT Cool Down
▶ Flaps - T/0
                                                          • Windmill: 1:8.8₁
▶ Mixture - rich
                             <= 50°F(22.8°C) per min.</p>
                                                            1.45nm/lkft
▶ Prop - high RPM
                                     Pre-Landing
                                                          • Stationary: 1:10.3
▶ Pitot Heat - as required
                            ▶ ATIS/Rwys & Patterns
                                                            1.7nm/lkft
Review Airspeeds
                            ■ "CCGUMPSF"
▶ Time - note/start
                                                         ▶ Wind and Landing Site
                             • G: Fuel Selector
                                                         ▶ Longer Flow
    Takeoff
                              · downwind/fullest
                                                          • Engine Inst.
▶ "Lights: Camera: Action"
                             • M: Mixture - rich
                                                          • Short Flow Again
 Electric Pump - on
                             • P: Prop - high RPM
                                                         ▶ Windmill Restart
 • Mixture/Prop/Throttle
                             P: Pump - on

    Airspeed >= 70 KIAS

▶ Engine Inst. - green
                             • Seat Belts - secure
                                                          Magsboth
▶ Vr - 59; then 67-60 KIAS
                             • F: Flaps - as required
                                                          • <u>Mixture</u> - lean then
▶ Safe Altitude
                              · T/O <108 KIAS
                                                            slowly richen

    Prop - 2400 RPM

                              · LDG <91 KIAS
                                                         ▶ Stationary Restart
 Pump - off
                            ▶ Trim - as required

    Airspeed >= &D KIAS

 • Lights - as required
                            ▶ Lights - as required
                                                          • Electrical - off
                            ▶ Approach - 73-58 KIAS
                                                          Avionics - off
► T/0: Vy = L7-54 KIAS
                                      Go Around
                                                          • Master - on
 • 68 minus 1.8 per 100 lbs ▶ Throttle - full
                                                          Mags. - start
   under 2646
                            ► Vy - 67-54 KIAS
                                                         ► No Restart
                            ▶ Flaps - T/0
▶ Cruise
                                                          • Fuel Selector - off
 • Flaps - UP
                            ▶ Safe Altitude

    Mixture - idle cutoff

 ■ Airspeed = 76-60 KIAS

    Prop - 2400 RPM

                                                          Mags. - off
Mixture - rich
                             Pump - off
                                                          • Master - off
 • >5000 hold const. EGT

    Lights - as required

                                                          • Belt and Seat - check
▶ Prop - 2400 RPM

    Cruise Climb

                                                          • Unlatch Door
▶ Throttle - full
                                                          Brace
                                    Post-Landing
▶ Engine Inst. - green
                                                                 Engine Fire
                            ► Throttle - 1000 RPM
▶ Trim - as required
                                                         ► Cabin Heat - off
                            Mixture - lean
▶ High Altitude - pump on
                            ▶ Flaps - UP
                                                         ▶ Emergency Descent
    Cruise
                                                         ▶ Landing is ensured
                            ► Electric Pump - off
▶ Flaps - UP
                            ▶ Pitot Heat - off
                                                          • Fuel Selector - off
► Throttle - 21-24"
                            ▶ Trim - T/0
                                                          • Throttle - full
▶ Prop - 1800-2400 RPM
                                                          Pump - off
                            ▶ Lights - as required
Mixture
                            ► Clearance - obtain
                                                          Master - on
 • Higher Power - richen
                                                          • Emergency Windows - open
                                  CO Contamination
 • Economy: max EGT & <=75%
                                                         ▶ Engine-off Landing
                            ► Cabin Heat - off
  · Best: 100°F(55°C) lower
                                                               Electrical Fire
                            ▶ Ventilation - open
► High Altitude - pump on
                                                         ► Cabin Heat - off
                            ► Emergency Windows - open
▶ Flow Check (△15 min)
                            ▶ Forward Canopy - partially▶ Emergency Switch - on
 • Trim, Fuel (Switch tanks)
                                                         ▶ Master - off
                              open (DO NOT lock/unlock

    Mixture/Prop/Throttle

                                                        ▶ Emergency Windows - open
                              rear door during flight)
 • Flaps - Engine Inst.
                                                         ► Forward Canopy - partially
                                   Engine Failure
 ■ Pump, Mag, Master
                                                         ► Land ASAP
                            ▶ Short Flow
► CHT: 150-400°F
                             • Fuel Selector - fullest
▶ 0il: 165-220°F
```