DA40-Gl000 (Ted Yin v0.7) Cold ▶ ELT - check (121.5) ▶ 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 ▶ Mixture - lean (full aft) ▶ 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 ► AP - MET/HDG Vq = 76/73/68/60 ▶ Seat Belts ▶ Trim - T/0 ► Vy(Up) = 76/73/68/60 ▶ Parking/Brakes - test/set ▶ Fuel Selector - fullest Vy(T/0) = 67/66/60/54 ▶ Circuit Brkrs. - check ► Hdq./Alt. Bugs ► Approach Speeds ▶ Strobe (ACL) - on ▶ GPS/Status Bar/Ann. Test • Up - 76/73/68/60 ▶ Avionics - off ▶ MFD Range/Track Up • T/O - 74/72/66/59 ▶ Fuel Selector - least ► Comm/Nav/VOR/FP LDG - 73/71/63/58 ► Canopy - pos. 1/2 ▶ Mixture - rich Va

▶ 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

Shutdown

▶ Throttle - 2000 RPM

► Mags · L/R - 175, 50.

▶ Engine Inst. - check

▶ Throttle - 1000 RPM

▶ Lights - as required

► ADSB Handheld - on

▶ Idle Check

▶ Mixture - lean

▶ Alternate Air - check

► Cycle Prop x3 - 250-500

MÄM 40-227

· ves - 111 @ 2284-2646

·no - 108 @ 2161-2535

• below 2161/2284 - 94

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    Mixture - full/check

In-Flight Operations
                                                            Pump - on
        Pre-Takeoff
                            ► Mixture - richen slowly
                                                          • Alternate Air - on
                            ► Throttle - as required
▶ 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
                                                          Mags. - both
▶ Vr - 59; then 67-60 KIAS
                             • F: Flaps - as required

    Mixture - 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

 • Vy = 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
                            ▶ 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
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