DA40-Gl000 (Ted Yin v0.7) ▶ 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 ► GPS - DB date ▶ Check Under Seats ▶ Hobbs Time - note ► Canpoy/Door - lock ▶ Fuel Totalizer - enter Walkaround ▶ Post-Flight Walkaround ► ATIS - PFD/backup/AP(?) ► Canopy/Door - check Airspeeds (KIAS) ▶ Radio - test ▶ Fuel/0il - test/sample ▶ Transponder - squawk \triangleright Vr = 59 ▶ Caps/Drains/Vents ► Check - TC/AI/HSI<->MC ▶ Weights ▶ Surfaces/Controls ► Clearance - obtain • 2646/2535/2205/1874 lbs ▶ Stall Strips/Fairings ▶ Brakes - release/test ▶ Vq = 76/73/68/60 ► Exhaust/Antennas Run-Up Vy(Up) = 76/73/68/60 ▶ Prop/Air Intakes x3 Vy(T/0) = 67/66/60/54 ▶ Parking Brake - set ▶ Pitot/Static/Stall Approach Speeds ▶ Seat Belts - check ▶ Gear/Tires/Brakes • Up - 76/73/68/60 ► Canopy/Door - lock ▶ Ties/Chocks • T/O - 74/72/66/59 ▶ Door Warning - off ▶ Final Walkaround • LDG - 73/71/63/58 ▶ Flight Controls - correct Pre-Start Va ▶ Instruments - scan ▶ Rear Door - secure MÄM 40-227 ► Alternate Static - check ▶ Rudder Pedals - adjust ► AP - MET/HDG ·yes - 111 @ 2284-2646 ▶ Seat Belts ·no - 108 @ 2161-2535 ▶ Trim - T/0 ▶ Parking/Brakes - test/set ▶ Fuel Selector - fullest • below 2161/2284 - 94 ▶ 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

► ADSB Handheld - on

Shutdown

▶ Hdg./Alt. Bugs

► Comm/Nav/VOR/FP

▶ Mixture - rich

▶ Idle Check

▶ Mixture - lean

▶ MFD Range/Track Up

▶ Throttle - 2000 RPM

► Cycle Prop x3 - 250-500 ► Mags · L/R - 175, 50.

▶ Alternate Air - check

▶ Engine Inst. - check

▶ Throttle - 1000 RPM

▶ Lights - as required

▶ GPS/Status Bar/Ann. Test

In-Flight Operations

Pre-Takeoff

▶ Abort Plan/Lost Comm.

► Canopy/Door - lock

▶ Fuel Selector - fullest

▶ Flaps - T/0 ▶ Mixture - rich

▶ Prop - high RPM

▶ Electric Pump - on

▶ Pitot Heat - as required ▶ Review Airspeeds

▶ Time - note/start

Takeoff

▶ "Lights: Camera: Action"

• Mixture/Prop/Throttle

▶ Engine Inst. - green ▶ Vr - 59; then 67-60 KIAS

▶ Safe Altitude

 Prop - 2400 RPM • Elect. Pump - off

• Lights - as required

▶ Vy (T/0)

Ь7-54 KIAS

• 68 minus l.8 per 100 lbs ▶ Throttle - full under 2646

▶ Cruise

• Flaps - up

■ Vy: 7b-b0 KIAS

▶ Prop - 2400 RPM

▶ Mixture - rich • >5000 hold const. EGT

▶ Throttle - full ▶ Engine Inst. - green

▶ Trim - as required

▶ High Altitude - pump on

Cruise

▶ Flaps - up ▶ Throttle - 21-24"

▶ Prop - 1800-2400 RPM

▶ Mixture

• Higher Power - richen

• Economy: max EGT & <=75%

·Power: 1∩N°F/55°C lower

▶ Flow Check (♠15 min)

• Trim₁ Fuel

• Mixture, Prop, Throttle • Flaps - Engine Inst.

■ Pump₁ Mag•₁ Master

► CHT: 150-400°F

▶ 0il: 165-220°F

▶ Mixture - richen slowly

▶ Prop - 1800-2400 RPM

▶ Throttle - as required ▶ High Altitude - pump on

▶ Flow Check

• <= 50°F/22.8°C pm

► CHT Cool Down

Pre-Landing

► ATIS/Rwys & Patterns ■ "CCGUMPSF"

• G: Fuel Selector

· downwind/fullest • M: Mixture - rich

• P: Elect. Pump - on • P: Prop - high RPM

• Seat Belts - secure • F: Flaps - as required

· LDG <91 KIAS ▶ Trim - as required

· T/O <108 KIAS

▶ Lights - as required ▶ Approach - 73-58 KIAS

Go Around

► Vy - 67-54 KIAS

▶ Flaps - T/0 ► Safe Altitude

 Prop - 2400 RPM • Elect. Pump - off

• Cruise Climb

Post-Landing ▶ Throttle - 1000 RPM

▶ Mixture - lean ▶ Flaps - up

▶ Elect. Pump - off

▶ Pitot Heat - off

▶ Trim - T/0

▶ Lights - as required ► Clearance - obtain

CO Contamination

► Cabin Heat - off

▶ Ventilation - open ► Emergency Windows - open

▶ Forward Canopy

partially open

• DO NOT lock/unlock rear door during flight Engine Failure

▶ Short Flow

• Fuel Selector - fullest

• Mixture - full/check

• Elect. Pump - on

• Alternate Air - on • Mags. - check all

▶ Glide and Trim

• Speed: 7L-LO KIAS • Windmill: 1:8.87

1.45nm/lkft Stationary: 1:10.3.

1.7nm/lkft ▶ Wind and Landing Site

• Engine Inst.

▶ Longer Flow

• Short Flow Again ▶ Windmill Restart

Airspeed >= 70 KIAS

Short Flow Mags. - both • Mixture - lean and

slowly richen

▶ Stationary Restart • Airspeed >= 80 KIAS

• Electrical - off Avionics - off

• Master - on Mags. - start

▶ No Restart

• Fuel Selector - off

• Mixture - idle cutoff • Mags. - off

• Master - off • Belt and Seat - check

• Unlatch Door

Brace