DA40-61000 (Ted Yin v0.9) Ground Operations

- ► Papers A.R.O.W.
- ► Mags. key out
 - ▼ Electrical off
- ✓ Avionics off
- ► Essential Bus off
- Mixture idle cutoff
- Prop high RPM
 - Throttle idle
- ► Master on
- Flaps check & set T/0

Volts/Amps - [25-30] [>0]

. Master Alt. - on

► Mixture - lean (peak)

Engine Inst. - no Xs

- ► Lights/Pitot test ► Fuel Pump - check
 - Fuel note
- ► Master off
- ► Controls free & correct ► Flaps UP, then T/0 ▶ Lights - as required

✓► Hobbs Time - note

Avionics - on/set

GPS - DB date

- . Fuel/0il test/sample ► Canopy/Door - check

ATIS - PFD/backup/AP(?) Fuel Totalizer - enter

- Caps/Drains/Vents
- Surfaces/Controls
- · Stall Strips/Fairings

Check - TC/AI/HSI<->MC

Transponder - squawk

Radio - test

Brakes - release/test

Clearance - obtain

- Exhaust/Antennas
- Prop/Air Intakes x3
- . Pitot/Static/Stall
- Struts/Tires/Brakes
- ▶ Final Walkaround Ties/Chocks

Parking Brake - set

Seat Belts - check

- ► Rear Door secure
 - . Rudder Pedals adjust
 - Seat Belts
- Parking/Brakes test/set
- Circuit Brkrs. check
 - · Strobe (ACL) on Avionics - off
- · Essential Bus off
- Fuel Selector least
 - ► Canopy pos· 1/2
 - ▶ Passenger brief

▶ Prime

- Mixture idle cutoff
- Friction adjust • Prop - high RPM
 - Master Bat. on
- Throttle 1.2"
- Electric Pump on

·Mixture - 1-3 sec Warm

► ADSB Handheld - on

▶ Lights - as required

- ► ELT check (1,21,.5)
 - Electrical off Avionics - off

► Electric Pump - off

"Prop (lear!" . Mags. - start

Throttle - 0.4"

·Mixture - 3-5 sec

- ACL Strobes on
- Mags. off then both Throttle - 1000 RPM
 - Mixture idle cutoff
 - ▶ Tach Time note ► Mags. - key out Fuel Pressure - 14-35 psi

Oil Pressure - 1.5 secs.

Throttle - 1000 RPM

Mixture - rich

► Master - off

ADSB Handheld - off Post-Flight

- Tiedowns/Chocks Pitot Cover
 - Gust Lock
- Close Flight Plan Hobbs Time - note
- Check Under Seats
- Canpoy/Door lock
- Post-Flight Walkaround

Flooded Engine

- Electric Pump off
- Mixture lean (full aft) Throttle - 1/2 position
- Mags. start
- When engine fires:
- Mixture rich (rapidly) Throttle - idle
- Finish up normal start Canopy/Door - lock Door Warning - off

- Flight Controls correct ▶ Vr = 59
- VSO = 49, VS1 = 52 ▶ Weights

Alternate Static - check

AP - MET/HDG Trim - T/0

Instruments - scan

- 2646/2535/2205/1874 lbs
 - ► Vy(Up) = 7L/73/LB/L0 $V_9 = 7L/73/LB/L0$
- Climb(T/0) = L7/LL/LD/54
 - - Approach Speeds

GPS/Status Bar/Ann. Test

Hdg./Alt. Bugs

MFD Range/Track Up

Comm/Nav/VOR/FP Mixture - rich

Fuel Selector - fullest

- 09/84/EZ/92 dn •
- T/0 74/72/16/59
- LDG 73/71/63/58
- MÄM 40-227
- .yes 111 @ 2284-2646

Mags. L/R - -1,75, +/-50 Cycle Prop x3 - 250-500

Throttle - 2000 RPM

Alternate Air - check

Engine Inst. - check

Throttle - 1000 RPM

Idle Check

Mixture - lean

- · no 108 @ 2161-2535
- below 2161/2284 94
- ▶ Steep Turn: <=45°, >=68

	 Pump, Mag, Master 	• Flaps, Engine Inst.	 Trim, Fuel (Switch tanks) Mixture/Drop/Throatle 	▼ Flow Check (入15 min)	→ High Altitude - pump on	· Best: 100°F(55°C) lower	• Economy: max EGT & <=75%	Higher Power - richen	Mixture		► Throttle - Zl-Z4™	▼ Flaps - UP	Cruise	► High Altitude - pump on	▶ Trim - as required	▶ Engine Inst green	Throttle - full	▼ Prop - 2400 RPM	7		Airspeed = 76-60 KTAS	• Flans • IID	י (הויטס מימים במשם	יוטלפט שלעל.	• LA minus l.A per 100 lbs	▼ T/0: Vy = 67-54 KIAS	Climb	 Lights - as required 	1	/ • Prop - 2400 RPM		▼ Vr = 59; then 67-60 KTAS	Fraine Tret - green	■ Electric Pump - on	▶ "Lights, Camera, Action"	Takeoff	▶ Time - note/start	▶ Review Airspeeds	▶ Pitot Heat - as required		Mixture - rich	► Flaps - T/O	▼ (anopy/boor - lock	▶ Abort Plan/Lost Comm·	Pre-Takeoff	In-Flight Operations	
▼ Short Flow	Engine Failure	rear door during flight)	open (DO NOT lock/unlock >	▶ Forward Canopy - partially▶	▼ Emergency Windows - open ▼	Ventilation - open	V (abin Heat - off	CO Contamination	► Clearance - obtain	▶ Lights - as required	▼ Trim - T/0	▶ Pitot Heat - off	► Electric Pump - off	Ū	Mixture - Judu Kri			• Cruise Climb	<i>,</i> , –	• Pump - off	• DECENT - DUTTH ROM	Vafe Altitude	▼ ∨y		_	Go Around	► Approach - 73-58 KIAS	▶ Lights - as required	▼ Trim - as required ▼		T/O <1.DA KTAS	• Sear Berrs - Secure	P Pump - on	• P Prop - high RPM	• M Mixture - rich	. downwind/fullest	Fiel Selector	▼ Allorkwys & Patterns	ATTS /B	Pre-Landing	<= 50°F(22.8°C) per min.	▼ CHT Cool Down	▼ High Altitude = pump on ▼	► Throttle - as required	► Mixture - richen slowly	Descent	
	Land ASAP	<pre>Emergency windows - open Forward (anopy - partially</pre>	Master - off	Emergency Switch - on	Cabin Heat - off	Electrical Fire	Engine-off Landing	Emergency Windows - open	Master - on		■ Throttle - full	• Fuel Selector - off	Landing is ensured	Emergency Descent	Cabin Heat - off		- Arace		Rolt and Soat - Chock	Manten - Off	Mac - 101e cutoff	• ruel Selector - off	No Restart	Mags start	riaster = on	AVIONICS - OTT	• Electrical - off	• Airspeed >= 80 KIAS	Stationary Restart	slowly richen	Mixture - lean then	• Mags both	• Airspeed >= 70 KIAS	Windmill Restart	• Engine Inst.	Longer Flow	Wind and Landing Site	l.7nm/lkft	• Stationary: 1:10.3,	l.45nm/lkft	• Windmill: 1:8.8,	Speed: 76-60 KIAS	Glide and Trim	Mags check all	Pump - on	Mixture - full/check	

▶ 0il: 165-220°F

• Fuel Selector - fullest