DA40-G1000 (Ted Yin v0.8) Ground Operations

- ► Papers A.R.O.W.
- ▶ Mags. start ► Controls - free & correct
- ▶ Oil Pressure 1,5 secs. ▶ Throttle - 1,000 RPM
 - Mags. key out
 - Electric Pump off ✓ Mixture - idle cutoff
 - ▶ Throttle idle
 - ▶ Electrical off
 - Essential Bus off
 - Avionics off
 - ► Master on
- Fuel Pump check
- ► Flaps check & set T/0 ▶ Fuel - note

► Lights/Pitot - test

▶ Flaps - UP, then T/0

Pre-Taxi

Lights - as required

Avionics - on/set

GPS - DB date

► 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

- ► Rudder Pedals adjust)▶ Rear Door - secure
- ▶ Seat Belts

- ▶ Parking/Brakes test/set
- · Circuit Brkrs. check ► Strobe (ACL) - on
 - Avionics off
- · Fuel Selector least
- ► Canopy pos· 1/2 ► Passenger - brief

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

- ·Mixture 3-5 sec · Throttle - 0.4"

"Prop (lear!"

Electrical - off Avionics - off

► ELT - check (1,21,-5)

- ACL Strobes on
- Throttle 1000 RPM
- Mags. off then both Mixture - idle cutoff
 - Tach Time note Mags. - key out
 - ► Master off

Post-Flight

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

Engine Inst. - no Xs

Master Alt. - on

► ADSB Handheld - of Tiedowns/Chocks Fuel Pressure - 14-35 psi

► Mixture - lean (peak)

- Pitot Cover
 - Gust Lock
- ► Hobbs Time note Close Flight Plan
- Check Under Seats
- Canpoy/Door lock

Post-Flight Walkaround

- Fuel Totalizer enter
- ATIS PFD/backup/AP(?)
 - Transponder squawk Radio - test
- Check TC/AI/HSI<->MC Brakes - release/test Clearance - obtain

Mixture - lean (full aft)

Electric Pump - off

Throttle - 1/2 position

When engine fires:

► Mags. - start

• Throttle - idle

▶ Parking Brake - set Seat Belts - check

• Mixture - rich (rapidly)

► Finish up normal start

- Canopy/Door lock Door Warning - off
- Flight Controls correct

_ \\ |- \\ |- \\ Weights

> Alternate Static - check Instruments - scan

2646/2535/2205/1.874 1bs

Vg = 76/73/68/60

- AP MET/HDG
- Fuel Selector fullest Trim - T/0

Vy(T/0) = L7/LL/L0/54 $V_{y}(U_{p}) = 7L/73/L8/L0$

- GPS/Status Bar/Ann. Test Hdg./Alt. Bugs
- MFD Range/Track Up

• T/0 - 74/72/Lb/59 • LDG - 73/71/L3/58

- Up - 76/73/68/60

Approach Speeds

- Mixture rich Comm/Nav/VOR/FP
- Throttle 2000 RPM
- Cycle Prop x3 250-500 Mags. L/R - 1,75, 50.

.yes - lll @ 2284-2646

MÄM 40-227

· no - 108 @ 2161-2535

- Alternate Air check
 - Engine Inst. check
 - Idle Check
- Throttle 1000 RPM
- Lights as required Mixture - lean

ADSB Handheld - on

• below 2161/2284 - 94

CHI: 1:100	laster	• Flaps, Engine Inst.	 Mivture/Prop/Throattle 	▼ Flow Check (Lb min)	► High Altitude - pump on	· Best: 100°F(55°C) lower	• Economy: max EGT & <=75%	Higher Power - richen	Mixture	► Prop - 1800-2400 RPM	► Throttle - ZJ-Z4™	▶ Flaps - UP	Cruise	▶ High Altitude - pump on	▶ Trim - as required	▶ Engine Inst green	► Throttle - full	/ ▶ Prop - 2400 RPM	• >5000 hold const. EGT	Mixture - rich	 Vy = 76-60 KIAS 	• Flaps - UP	▶ (ruise	under 2646	• 68 minus l∙8 per 100 lbs ▶	► T/0: Vy = 67-54 KIAS	Climb	Lights - as required	• Pump - off		▶ Safe Altitude		► Engine Inst green	 Mixture/Prop/Throttle 	- >	Takeof f	▶ Time - note/start	▶ Review Airspeeds	▶ Pitot Heat - as required	► Prop - high RPM	► Mixture - rich	▶ Flaps - T/0		▼ Abort Plan/Lost Comm·	Pre-Takeoff	In-Flight Operations	
▼ NOOTE FIOW		rear door during flight)	open (D0 NOT lock/unlock	▶ Forward Canopy - partially▶	► Emergency Windows - open	Ventilation - open	▼ Cabin Heat - off	<pre>CO Contamination</pre>	► Clearance - obtain	▶ Lights - as required	▼ Trim - T/0	▶ Pitot Heat - off	► Electric Pump - off	등	Mixture - lean	Thro++16 = 1.000 RDM	Post-Landing	• Cruise Climb	, .	Pump - off	• Prop - 2400 RPM	► Safe Altitude	▶ Flaps - T/0	▼ Vy - 67-54 KIAS		Go Around	▼ Approach - 73-58 KIAS	➤ Lights - as required	▶ Trim - as required	· LDG <91 KIAS	T/O <lob kias<="" td=""><td>• F: Flaps - as required</td><td>• S: Seat Belts - secure</td><td>Trop I nigh ker</td><td></td><td>· downwind/fullest</td><td>• G: Fuel Selector</td><td>▼ "CCGUMPSF"</td><td>► ATIS/Rwys & Patterns</td><td>Pre-Landing</td><td>• <= 50°F(22.8°C) per min.</td><td></td><td>► High Altitude - pump on •</td><td>Prop - 1800-2400 RPM</td><td>Mixture - richen slowly</td><td>Descent</td><td></td></lob>	• F: Flaps - as required	• S: Seat Belts - secure	Trop I nigh ker		· downwind/fullest	• G: Fuel Selector	▼ "CCGUMPSF"	► ATIS/Rwys & Patterns	Pre-Landing	• <= 50°F(22.8°C) per min.		► High Altitude - pump on •	Prop - 1800-2400 RPM	Mixture - richen slowly	Descent	
	Land ASAP	· Emergency windows - open · Forward (anopy - partially	Master - off	Emergency	· Cabin Heat - off	Electrical Fire	Engine-off Landing	 Emergency Windows - open 	• Master - on	Pump - off	• Throttle - full	Fuel Selector - off	Landing is ensured	· Emergency Descent	· (abin Heat - off	Engine Fire	• Brace	• Unlatch Door	 Belt and Seat - check 	• Master - off	• Mags off	Mixture - idle cutoff	• Fuel Selector - off	No Restart	• Mags start	• Master - on	• Avionics - off	• Electrical - off	• Airspeed >= AO KTAS	Stationary Rostant	• Mixture - Iean then	• Mags both	Airspeed >= 70 KIAS	. Windmill Restart	• Short Flow Again	• Engine Inst.	wind and Landing Site	1.7nm/lkft	■ Stationary: L:LU·3¬	l-45nm/lkft	• Windmill: 1:8.8.	Speed: 76-60 KIAS	Glide and Trim	• Mags· - check all	Alternate Air - on	• Mixture - full/check	

▶ 0il: 165-220°F

• Fuel Selector - fullest