	DA4O-18O (Ted Yin vl.O)	•	▶ Mixture·····lean
	Ground Operations	• Warm	▶ Lightsas required
	Initial	· Mixture·····l-3 sec	► ADSB Handheld·····on
		<ul><li>Cold</li></ul>	Shutdown
	► Papers ········ A·R·O·W·		▶ ELT ····· check (121.5)
	▶ Fire Extinguisher ··· check		► Avionics·····off
/ N	▶ Mags. · · · · · · key out	$\blacktriangleright$ Electric Pump $\cdots\cdots$ off	▶ Electrical ····· off
$\bigcirc$	► Electrical ······ off  ► Avionics ····· off	▶ "Prop Clear!"	• ACL Strobes ···· on
		▶ Mags start	▶ Throttle ······ 1000 RPM
	► Essential Bus ····· off  ► Mixture ···· idle cutoff	• Mixture ····· rich	▶ Magsoff then both
	▶ Prop ······ high RPM	$\blacktriangleright$ Throttle $\cdots\cdots$ 1000 RPM	▶ Mixture ····· idle cutoff
	► Throttle ·····idle	▶ 0il Pressure ····· 15 secs•	▶ Mags key out
	► Master · · · · · on		$\blacktriangleright$ Tach Time $\cdots\cdots\cdots$ note
	► Flaps······ check & set T/0		▶ Master····off
	► Lights/Pitot······ test	► Volts/Amps ···· 25-30V/2-75A	1 03t Tilgit
	► Fuel Pump·······check	▶ Engine Inst no Xs	► ADSB Handheld ···· off
	▶ Fuel · · · · · · · note	► Mixture ······ lean (peak)	▶ Flight Plan ····· close
	▶ Masteroff	Pre-Taxi	▶ Hobbs Time·····note
	▶ Controls ···· free & correct	▶ Flaps ····· UP₁ then T/0	▶ Under Seats ···· check
$\bigcup$	▶ Hobbs Time·····note	▶ Lights ···· as required	▶ Gust Lock ···· on
	Walkaround	▶ Avionics ····· on/set	▶ Pitot Cover ···· on
	► Fuel/0il ······ test/sample	$\blacktriangleright$ GPS $\cdots$ DB date	▶ Tiedowns/Chocks·····on
	► Caps/Drains/Vents	$\blacktriangleright$ Fuel Totalizer $\cdots\cdots$ enter	► Canpoy/Door ···············lock
	► Surfaces/Controls	► ATIS····· PFD/backup/AP(?)	▶ Post-Flight ···· walkaround
	▶ Stall Strips/Fairings	▶ Radio ···· test	Flooded Engine
	► Exhaust/Antennas	► Transponder · · · · · squawk	▶ Electric Pump ····· off
	▶ Prop/Air Intakes x3	► Check ······ TC/AI/HSI<->MC	▶ Mixture… lean (full aft)
	▶ Pitot/Static/Stall	► Clearance ····· obtain	▶ Throttle ····· 1/2 position
	▶ Struts/Tires/Brakes	▶ Brakesrelease/test	
	▶ Ties/Chocks	Run-Up	▶ When engine fires:
_	► Canopy/Door	▶ Parking Brake ···· set	• Throttleidle
$(\ )$	▶ Final Walkaround	$\blacktriangleright$ Seat Beltscheck	• Mixturerich (rapidly)
	Pre-Start	► Canopy/Door ······ lock	▶ Finish up normal start
	▶ Rear Door·····secure	▶ Door Warning·····off	Airspeeds (KIAS)
	▶ Rudder Pedals adjust		▶ Vr59
	► Seat Belts·····on	▶ Instruments · · · · · scan	
	▶ Parking/Brakes ···· test/set	▶ Alternate Static ····· check	_
	▶ Circuit Brkrscheck	► AP MET/HDG	
	▶ Strobe (ACL) ····· on	Fuel Selector 1/0	▶ Vg · · · · · · · 7Ь/73/Ь8/Ь0
	▶ Avionics·····off	<ul><li>▶ Fuel Selector ······ fullest</li><li>▶ Heading/Altitude ····· set</li></ul>	
	▶ Essential Bus ····· off	A (CDC /A = I = I.	► Climb(T/0) ····· 67/66/60/54
	▶ Fuel Selector ····· least	► MFD Range/Track Up ···· set	► Approach Speeds
	► Canopy pos. 1/2	► Comm/Nav/FPL set	<ul><li>Up 76/73/68/60</li><li>Т/0 74/72/66/59</li></ul>
$\bigcap$	▶ Passenger ···· brief	► Mixture ······ rich	• LDG · · · · · 73/71/63/58
	Start	▶ Throttle ······ 2000 RPM	► Va
	▶ Prime	► Cycle Prop x3 250-500	● MÄM 40-227
	• Mixtureidle cutoff	► Mags · L/R····· -175¬ +/-50	· yes ······ 111 0 2646-2284
	■ Prop ···· high RPM	▶ Alternate Air ····· check	· no······ 108 @ 2535-2161
	• Friction ····· adjust	$\blacktriangleright$ Engine $\cdots\cdots$ check	• o/w 94 0 below 2284/21P1
		$\blacktriangleright$ Throttle $\cdots\cdots$ idle	► Steep Turn: <=45°, >=68
	• Throttle ···· 1.2"	► Throttle ······ 1000 RPM	

	In-Flight Operations	▶ Throttle ····· as required	• Magscheck all
	Pre-Takeoff	▶ Prop 1800-2400 RPM	► Glide and Trim
	► Abort Plan/Lost Comm.	► High Altitude ···· pump on	• Airspeed ····· 7L-LO KIAS
	► Canopy/Door ············· lock	► CHT Cool Down	• Windmill ······ 1.45nm/lkft
	▶ Fuel Selector ····· fullest	• <= 50°F(22.8°C)/min.	• Stationary ····· l.7nm/lkft
_	► Flaps T/0	Pre-Landing	▶ Wind and Landing Site
· /	▶ Mixture ····· rich	,	► Longer Flow
	▶ Prop ····· high RPM	▶ "CCGUMPSF"	<ul><li>Engine Inst check</li><li>Short Flow</li></ul>
	▶ Pitot Heat····· as required	• G Fuel Selector	► Windmill Restart
	► (Air Conditioner ······ off)  ► Review Airspeeds	• M Mixture ····· rich	• Airspeed ······· 70-80 KIAS
	► Time ······ note/start	<ul><li>P Prop high RPM</li><li>P Pump on</li></ul>	• Mags• both
	Takeoff	• S Seat Belts secure	• Mixture ······ lean then
		• F Flaps as required	slowly richen
	▶ "Lights₁ Camera₁ Action"	. T/0	5
	<ul><li>Electric Pump ····· on</li><li>Mixture/Prop/Throttle</li></ul>	· LDG	• Airspeed ······ &O KIAS
	► Engine Instgreen		• Electrical ····· off
	► Vr ····· 59, then ···· 67-60		• Avionics ····· off
	▶ Safe Altitude	► Approach Speed ····· 73-58	• Master····on
$(\ )$	• Prop 2400 RPM	▶ (Air Conditioner ······ off)	• Mags• ···· start
	• Pump off	Go Around	► Engine-off Landing
	• Lights ····· as required		• Fuel Selector ····· off
	Climb	▶ Vy 67-54 KIAS	• Mixture ····· idle cutoff
	► T/0: Vy ······ 67-54 KIAS	▶ Flaps · · · · · T/0	• Mags• off
	► Cruise ······· 76-60 KIAS	► Safe Altitude	• Master off
	• Flaps UP	• Prop 2400 RPM	<ul><li>Belt and Seat ······ check</li><li>Flaps ····· LDG (when able)</li></ul>
	▶ Mixture ····· rich	• Pump off	<ul> <li>Unlatch Door?/Brace</li> </ul>
	• >5000 hold const. EGT	• Lights ····· as required	Engine Fire
	▶ Prop 2400 RPM	• Cruise Climb	► Cabin Heat ····· off
	▶ Throttle ····· full	Post-Landing	► Emergency Descent
	▶ Engine Instgreen	► Throttle ······ 1000 RPM	► Landing is ensured
		▶ Mixture ···· lean	• Fuel Selector ····· off
	► High Altitude ··· pump on		• Throttle ····· full
	(ruise	► Electric Pump ······ off	• Pump off
	► Flaps UP	Trim T/A	• Master · · · · on
	► Throttle ····· 21-24"	► Trim T/0  ► Lights as required	■ Emergency Windows···· open
	▶ Prop 1800-2400 RPM	► Clearance obtain	▶ Engine-off Landing
	► Mixture	CO Contamination	Electrical Fire
	• Economy · · · · max EGT <sub>1</sub> <=75%		► Emergency Switch ···· on
	Best IUU'r (55°() lower	<ul><li>▶ Cabin Heat ····· off</li><li>▶ Ventilation ···· open</li></ul>	▶ Master····off
	► High Altitude ···· pump on	► Emergency Windows ····· open	► Cabin Heat ····· off
	► Flow Check (♠15 min)	► Canopy ···· open (partially •	► Emergency Windows ····· open
	■ Trima Switch Tanks	DO NOT unlock rear door	► Canopy ···· partially
$\bigcirc$	Mixture/Prop/Throttle	during flight)	► Land ASAP
	• Flaps - Engine Inst.	Engine Failure	
	■ Pump₁ Mag•₁ Master	► Short Flow	
	► CHT 150-400°F	• Fuel Selector ······ fullest	
	▶ 0il ····· 165-220°F	Mixture full/check	
	Descent	• Pump ····· on	
	► Mixture ···· richen slowly	• Alternate Air on	

	Cl72S-Gl000 (Ted vl.2)	•	Mixture 3/4 rich		Takeoff
	Initial	•	"Prop Clear!"	•	"Lights: Camera: Action"
	► Papers A.R.O.W.		Mags start		<ul><li>Mixture/Throttle</li></ul>
	► Control Lock······off		Throttle 1000 RPM		Engine Instgreen
	► Mags key out		0il Pressure 3D secs.		Vr 55 kts
	▶ Mixture ······ idle cutoff		Volts/Amps · · · · · [>26] [>0]		Vx···· 62 kts₁ Vy···· 74 kts
_	▶ Throttle ·····idle	•	Mixture $\cdots$ lean for taxi		
<b>\</b> /	▶ Avionicsoff		Pre-Taxi		Climb / Cruise
	▶ Fuel Shutoff ···· on				Cruise Climb75-85 kts
	▶ Fuel ····· both		lightsas required		■ Flaps·····up
	▶ Master·····on		Avionics on/set		Mixture ······lean >3000
	▶ Fuel ····· note		GPS		Flow Check (♠15 min)
	▶ Flaps·····down	•	Fuel Totalizer enter		• Fuel₁ Trim
	▶ Lights/Pitot····· test	•	ATTS · · · · · · PFD/backup/AP(?)		• Flaps, Engine Inst.
	▶ Avionics on/off ····· fans		Radio test		• Mixture, Throttle
	▶ Master····off	•	Transponder · · · · squawk		■ Master: Mag:: Pump
	▶ Hobbs Time·····note	<b>•</b>	Check ····· TC/AI/HSI<->MC		Descent
	Walkaround		Clearance ····· obtain	•	Mixture ····· richen slowly
	▶ Fuel/0il····· dip/sample	•	Brakes ···· test	•	Throttle as required
1	► Caps/Drains/Vents		Run-Up		Flow Check
	► Surfaces/Controls		·		Dog-Landing
	► Exhaust/Antennas		Brakes set		Pre-Landing
	▶ Prop/Belt/Air Intake		Seat Belts check		ATIS/Rwys & Patterns
	▶ Pitot/Static/Stall		Doors/Windows ······ secure Flight Controls ··· correct	-	"CCGUMPSF"
	▶ Gear/Tires/Brakes		Instruments scan		• G: Fuel ······· on/both
	▶ Ties/Baggage Door		Alternate Static check		• M: Mixture ······rich
	▶ Final Walkaround		AP MET/HDG		• S: Seat Beltssecure
	Pre-Start		Trim····· takeoff		• F: Flaps ······ as required
	▶ Doors ····· secure				Trimas required
	► Belts/Seat Track		Hdq./Alt. Bugs		Ldg. Lighton Approach8D-L5 kts
	▶ Brakes ······ check set			•	
$\bigcap$	► Circuit Brkrscheck	·	MFD Range/Track Up		Post-Landing
$\bigcirc$	► Passenger ····· brief	•	Comm/Nav/VOR/FP	•	Throttle ······ 1000 RPM
	▶ Beacon ····· on	•	Mixture ····· rich	•	Mixture ····· lean
	▶ Avionics·····off	•	Throttle ······ 1800 RPM	•	Flaps ····· up
	► Fuel ····· both	•	Mags 150, 50	•	Pitot Heat ····· off
	Start	•	Engine Instcheck	•	Trim···· takeoff
		•	Idle Check	•	Lightsas required
	► Stby. Battery test/arm ► Engine Indpo Ys	•	Throttle ······ 1000 RPM	•	Clearance ····· obtain
	F Lingtile Tild	•	Mixture ·····lean		Shutdown
	► Volts [E>24] [M<1.5]  ► Amps \$<0/ann on		Lightsas required		ELTcheck (121.5)
	▶ Prime:	•	ADSB Handheldon		Avionics off
			Pre-Takeoff		Lights·····off
	<ul><li>Mixture idle cutoff</li><li>Brakes secure</li></ul>	_			■ Beacon·····on
$\bigcup$	Master on				
	• Throttle ····· slight				
	• Aux • Pump ····· on				
	• Mixture prime				
	· warm: 0-3 sec		Pitot heat as required		
	· cold: 3-5 sec		Review Airspeeds		Tach Time ····· note
	• Aux • Pump · · · · off			•	Stby. Batteryoff

## Post-Flight ► ADSB Handheld ····· off ▶ Tiedowns/Chocks ▶ Pitot Cover ▶ Fuel ····· switch to L/R ▶ Gust Lock ► Close Flight Plan ▶ Hobbs Time····· note ▶ Check Under Seats ▶ Cabin / Baggage ······ lock ▶ Post-Flight Walkaround Engine Failure ▶ Short Flow • Fuel ····· on/both • Mixture ····· full/check • Electrical Pump ···· on • Alternate Air ..... on • Mags•····check all ▶ Glide and Trim • Speed: LB kts • Ratio: 9, 1.48nm/1000ft ▶ Wind and Landing Site ▶ Longer Flow • Engine Indicators • Short Flow Again ▶ No Restart • Fuel ..... off • Mixture ····· idle cut-off • Prop/Throttle ..... off • Mags• · · · · off • Master ···· off • Belt and Seat ······ check • Unlatch Door

▶ Approach ····· 80/70/65 kts

Brace