	DA4O-18O (Ted Yin vl.O)	•	▶ Mixture·····lean
	Ground Operations	• Warm	▶ Lights····· as 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	▶ Lightsas 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	$\blacktriangleright \ {\tt Canopy/Door} \cdots \cdots {\tt lock}$	▶ Finish up normal start
	▶ Rear Door·····secure	▶ Door Warning · · · · · off	Airspeeds (KIAS)
	► Rudder Pedals ····· adjust		▶ Vr · · · · · 59
	► Seat Belts·····on	▶ Instruments · · · · · scan	
	▶ Parking/Brakes ···· test/set	▶ Alternate Static ····· check	_
	► Circuit Brkrscheck	► AP MET/HDG	
	▶ Strobe (ACL) ····· on	Fuel Selector full+	▶ Vg · · · · · · · 7Ь/73/Ь8/Ь0
	▶ Avionics·····off	► Fuel Selector ······ fullest ► Heading (Altitude ······ set	
	▶ Essential Bus ···· off	<ul><li>▶ Heading/Altitude ······ set</li><li>▶ Aux/GPS/Ann · ··· check</li></ul>	► 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	■ Up · · · · · · · · 76/73/68/60
	▶ Passenger ···· brief	► Mixture ······ rich	• T/0······ 74/72/66/59 • LDG····· 73/71/63/58
	Start	▶ Throttle ······ 2000 RPM	■ LDG 73/71/63/58
	▶ Prime	► Cycle Prop x3250-500	● 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	• 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	• Master · · · · on
		► 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%	► Cabin Heat ····· off	▶ Emergency Switch ···· on
	Higher Power sicker	▶ Ventilation · · · · open	▶ Master ···· off
	► High Altitude ···· pump on	► Emergency Windows ····· open	► Cabin Heat ···· off
	► Flow Check (♠15 min)	► Canopy ···· open (partially ¬	► Emergency Windows ····· open
$\bigcirc$	• Trima Switch Tanks	DO NOT unlock rear door	► Canopy ···· partially
$\bigcup$	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	