	DA4O-18O (Ted Yin vl.Oa)	$\blacktriangleright$ Electric Pump $\cdots\cdots$ on	• Throttle ·····idle
	Ground Operations	► Warm	• Throttle ······ 1000 RPM
	Initial	• Mixture ······ 1-3 sec	
		► Cold	• Each Tank ···· l min₁ l500
	► Papers ········· A·R·O·W·	• Mixture ···· 3-5 sec	
_	► Fire Extinguisher ··· check ► Mags · · · · key out		► ELT check (121.5)
()	► Electrical ····· off	▶ "Prop Clear!"	▶ Avionics ····· off
	► Avionics ····· off		► Electrical ····· off
	► Essential Bus · · · · off	• Mixture ······ rich	• ACL Strobes ···· on
	► Mixture ······ idle cutoff		► Throttle·······1000 RPM
	► Prop ····· high RPM	Mixture lean (peak)	► Mags. · · · · off then both
	► Throttle ·····idle	▶ 0il Pressure ······ 15 sec	► Mixture ····· idle cutoff
	► Master · · · · · on	► Electric Pump······ off	▶ Mags. · · · · · key out
	► Flaps ······ check & set T/0		► Tach Time ···· note
	► Lights/Pitot ······ test		► (Standby Alternator · off)
	► Fuel Pump ······ check		▶ Master · · · · off
	► Fuel note	• Volts/Amps ··· 25-30V/2-75A	Post-Flight
	► Master · · · · off	Pre-Taxi	► (ADSB Handheld····off)
	► Controls… free & correct		▶ Flight Plan·····close
$\bigcup$	► Hobbs Time ····· note	$\blacktriangleright  \text{Lights} \cdot \cdots \cdot \text{as required}$	► Hobbs Time ····· note
	Walkaround		▶ Under Seatscheck
			► Gust Lock·····on
	► Fuel/0il······ test/sample		▶ Pitot Cover ···· on
	► Caps/Drains/Vents		▶ Tiedowns/Chocks·····on
	► Surfaces/Controls ► Stall Strips/Fairings	•	► Canpoy/Door ····· lock
	► Exhaust/Antennas	► Check ······ TC/AI/HSI<->MC	
	► Prop/Air Intakes x3	► Clearance ····· obtain	► Electric Pump·····off
	► Pitot/Static/Stall	▶ Brakes ····· release/test	► Mixture… lean (full aft)
	► Struts/Tires/Brakes	Run-Up	▶ Throttle mid position
	► Ties/Chocks	▶ Brake ···· set	▶ Mags. · · · · start
	► Canopy/Door	► Seat Belts·····check	► When engine fires:
$\bigcirc$	► Final Walkaround	► Canopy/Door ····· lock	• Throttle ·····idle
$\bigcup$		▶ Door Warning ···· off	
	Pre-Start	▶ Flight Controls · · · · · check	▶Finish up normal start
	▶ Passenger····brief	► Instruments	Airspeeds (KIAS)
	▶ Rear Door ···· secure	• Alternate Static ···· check	▶ Vr
	► Canopy pos. 1/2	• GPS/System/Ann. ····· check	► Vs0······ 49₁ Vs1····· 52
	► Seat Belts · · · · · on	■ AP ····· MET/HDG	► Mass ··· 2646/2535/2205/1874
	► Brakes · · · · test/set	• Heading/Altitude ····· set	• Vg·······76/73/68/60
	► Circuit Brkrs check	• Com/Nav/FPL · · · set	• Vy(Up) ······ 76/73/68/60
	►Strobe (ACL) ····· on	•MFD Range/Track Up ··· set	• Climb(T/O) ···· 67/66/60/54
	► Avionics · · · · off	• Instruments ····· scan	• Approach
	► Essential Bus · · · · off	• Lights as required	· Up ······ 76/73/68/60
	► Mixture ······idle cutoff	• (ADSB Handheldon)	· T/0 ······ 74/72/66/59
	► Prop ····· high RPM	► Engine	· LDG ······ 73/71/63/58
	► Friction ····· adjust ► Master (Battery) ···· on	• Fuel Selector ···· fullest	► Va · · · · · · MÄM 40-227
	► Rudder Pedals ····· adjust	■ Mixture·····rich	• yes ······ 111 @ 2646-2284
	► Gloop DB Date ······ check	■ Throttle ····· 2000 RPM	• no ······ 108 @ 2535-2161
	► Fuel Selector ········ least	• Cycle Prop x3··· <b>-</b> 250~500	• o/w····· 94 @ <2284/2161
		■ Mags • L/R ···· -175, +/-50	► Turn: 30/45/60° 58/68/83
	Start	• Alternate Air ····· check	
	► Throttle·········· 1.2"	• Indicators ····· check	

	In-Flight Operations	Descent	1. Fuel Selector ·····
	Pre-Takeoff	► Mixture ··· richen slowly	fullest
	► Abort Plan/Lost Comm.	► Throttle ····· as required	2. Mixture · full/check
	► Canopy/Door ············· lock	▶ Prop 1800-2400 RPM	3. Pump on
	► Trim T/0	► High Altitude… pump on	4. Alternate Air on
	► Fuel Selector ····· fullest	► CHT Cool Down	5. Mags. · · · · · check all
$\bigcap$	► Flaps T/0	•<= 50°F(22.8°C)/min.	► Glide and Trim
$\bigcirc$	► Mixture ····· rich	Pre-Landing	• Airspeed ···· 76-60 KIAS
	▶ Prop ···· high RPM	► ATIS/Rwys/Approach Plan	• Windmill ······ 1.45nm/lkft
	▶ Pitot Heat as required	► "CCGUMPSF"	• Stationary ····· l.7nm/lkft
	► (Air Conditioner ····· off)	• G Fuel Selector	► Wind and Landing Site
	►Review Airspeeds	M Mixture rich	► Longer Flow
	► Time ····· note/start	• P Pump ····· on	• Engine Instcheck
	Takeoff	• P Prop ······ high RPM	• Short Flow
		• Seat Belts ···· secure	► Windmill Restart
	►"Lights₁ Camera₁ Action"	• F Flaps ···· as required	• Airspeed ······ 70-80 KIAS
	• Electric Pump ····· on	. T/O	Mags both
	<ul><li>Mixture/Prop/Throttle</li><li>Engine Inst green</li></ul>	· LDG	• Mixture lean then
	► Vr ····· 59, then ···· 67-60	▶ Trim ····· as required	slowly richen
\ /	► Safe Altitude	▶ Lights ····· as required	D
		► Approach Speed ······ 73-58	■ Airspeed ······ &D KIAS
	<ul><li>Prop</li><li>Pump</li><li>Pump</li></ul>	► (Air Conditioner ······ off)	• Electrical ····· off
	• Lights ····· as required	Go Around	• Avionics·····off
			• Master · · · · · on
	Climb	► Throttle ····· full	■ Mags. ···· start
	►T/0: Vy········ 67-54 KIAS	► Vy 67-54 KIAS	► Engine-off Landing
	► Cruise······76-60 KIAS	► Flaps ····· T/0	• Fuel Selector ····· off
	• Flaps UP	► Safe Altitude	• Mixture idle cutoff
	► Mixture ····· rich	• Prop 2400 RPM	■ Mags. · · · · off
	•>5000 hold const. EGT	• Pump ····· off	• Master ···· off
	► Prop 2400 RPM	<ul><li>Lights as required</li><li>Cruise Climb</li></ul>	■ Belt and Seat check
$\bigcap$	► Throttle ····· full		•Flaps····LDG (when able)
	► Engine Instgreen	Post-Landing	• Unlatch Door?/Brace
		► Throttle ······ 1000 RPM	Engine Fire
	► High Altitude… pump on	► Mixture ····· lean	► Cabin Heat·····off
	(ruise	► Flaps ····· UP	► Emergency Descent
	►Flaps·····UP	► Electric Pump ····· off	► Landing is ensured
	► Throttle ······ 21-24"	▶ Pitot Heat ···· off	• Fuel Selector ···· off
	► Prop 1800-2400 RPM	► Trim	• Throttle ····· full
	► Mixture	z Eights as required	• Pump off
	■ Economy ··· max EGT¬ <=75%	► Transponder ··· as required	• Master · · · · on
	■ Best ··· 100°F(55°C) lower	► Clearance ····· obtain	■ Emergency Windows···· open
	• Higher Power ······ richen	CO Contamination	► Engine-off Landing
	► High Altitude ···· pump on	► Cabin Heat·····off	Electrical Fire
( )	► Flow Check ( 15 min)	$\blacktriangleright$ Ventilation $\cdots\cdots\cdots$ open	► Emergency Switch····on
	■ Trim¬ Switch Tanks	► Emergency Windows ···· open	$\blacktriangleright Master \cdots \cdots off$
	Mixture/Prop/Throttle	$ ightharpoonup$ Canopy $\cdots$ open (partially $_1$	► Cabin Heat·····off
	• Flaps - Engine Inst.	DO NOT unlock rear door	▶ Emergency Windows $\cdots$ open
	• Pumpa Mag•a Master	during flight)	$ ightharpoonup$ Canopy $\cdots\cdots\cdots$ partially
	► CHT 150-400°F	Engine Failure	► Land ASAP
	► 0il 145-220°F	► Short Flow	
		- SHOLD LIOW	