	DA4O-180 (Ted Yin vl.O)	► Electric Pump ····· on ► Warm	MFD Range/Track Up ··· setInstruments ····· scan
	Ground Operations	• Mixture ······· 1-3 sec	
	Initial	► Cold	• (ADSB Handheldon)
	► Papers ······ A.R.O.W.		
	► Fire Extinguisher ··· check	• Mixture ······ 3-5 sec	
	► Mags · · · · · key out		► ELTcheck (121.5)
()	► Electrical ····· off	▶"Prop Clear!"	► Avionics ····· off
)	► Avionics ····· off	▶ Mags start	
	► Essential Bus · · · · off	• Mixture ····· rich	• ACL Strobes ···· on
	► Mixture ······idle cutoff	► Throttle······· 1000 RPM	► Throttle·······1000 RPM
	► Prop ····· high RPM	Mixture ······ lean (peak)	► Mags. · · · · off then both
	► Throttle ·····idle	▶ 0il Pressure ······ 15 sec	▶ Mixtureidle cutoff
	► Master · · · · · on	► Electric Pump·····off	► Mags. · · · · key out
	► Flaps ····· check & set T/0	▶ Alternators ···· on	▶ Tach Time·····note
	► Lights/Pitot ····· test	► Engine Inst. ····· check	► (Standby Alternator · off)
	► Fuel Pump ······ check	•Fuel Pressure·14-35 psi	▶ Master ···· off
	► Fuel · · · · · · note	• Volts/Amps · · · 25-30V/2-75A	Post-Flight
	► Master ····· of f	Pre-Taxi	► (ADSB Handheld ····· off)
_	► Controls… free & correct	► Flaps······· UP₁ then T/0	==
()	► Hobbs Time ······ note		► Hobbs Time ····· note
\bigcirc		► Avionics ······ on/set	
	Walkaround	► Fuel Totalizer ······ enter	
	► Fuel/0il····· test/sample		► Pitot Cover ····· on
	► Caps/Drains/Vents	► Radio test	
	► Surfaces/Controls		► Canpoy/Door ············· lock
	► Stall Strips/Fairings	► Check ······ TC/AI/HSI<->MC	
	► Exhaust/Antennas	► Clearance ······ obtain	
	►Prop/Air Intakes x3	▶ Brakes ······ release/test	Electric Pumpoff
	▶ Pitot/Static/Stall		
	▶ Struts/Tires/Brakes	Run-Up	► Throttle ····· mid position
	► Ties/Chocks	▶ Brake · · · set	
_	► Canopy/Door	► Seat Belts·····check	
()	►Final Walkaround		• Throttle ·····idle
\bigcirc	Pre-Start	▶ Door Warning ···· off	
		► Flight Controls ······ check	
	▶ Passenger · · · · brief	► Heading/Altitude·····set	
	► Rear Door ····· secure	$ ightharpoonup$ Com/Nav/FPL \cdots set	▶ Vr59
	► Canopy ···· pos. 1/2	► Engine	▶ VsD······ 49₁ Vsl···· 52
	► Seat Belts · · · · on		► Mass ··· 2646/2535/2205/1874
	► Brakes ····· test/set	• Mixture·····rich	
	► Circuit Brkrs check	• Throttle ···· 2000 RPM	• Vy(Up) ······· 7Ь/73/Ь8/Ь0
	► Strobe (ACL) ····· on	• Cycle Prop x3··· -250~500	• Climb(T/O) ···· 67/66/60/54
	► Avionics ····· off	• Mags. L/R···· -175₁ +/-50	• Approach
	► Essential Bus · · · · · off	• Alternate Air ····· check	· Up ······ 76/73/68/60
_	► Mixture ····· idle cutoff	• Indicators ····· check	· T/0 ····· 74/72/66/59
\bigcirc	▶ Prop ····· high RPM	• Throttle ····· idle	· LDG · · · · · · 73/71/63/58
	► Friction ····· adjust	• Throttle ····· 1000 RPM	► Va
	► Master (Battery)on	• Mixture ······ lean	• yes ······ 111 @ 2646-2284
	► Rudder Pedals ······ adjust	• Each Tank ··· 1 min₁ 1500	• no ······ 108 @ 2535-2161
	► Glooo DB Date · · · · · check	► Full (heck (initial)	• o\m·····
	► Fuel Selector ····· least	• Alternate Static ··· check	
	Start	• GPS/System/Ann. ····· check	►Steep Turn: <=45°, >=68
	► Throttle ······ 1.2"	• AP MET/HDG	
		,,,,,,	

	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
	► Mixture ····· rich	Pre-Landing	• Airspeed ····· 76-60 KIAS
	► Prop ···· high RPM		• Windmill ······ 1.45nm/lkft
	▶ Pitot Heat as required	► ATIS/Rwys/Approach Plan ► "CCGUMPSF"	■ Stationary ····· 1.7nm/lkft
	► (Air Conditioner ····· off)		► Wind and Landing Site
	►Review Airspeeds	G Fuel SelectorM Mixture rich	► Longer Flow
	▶ Time ····· note/start	M Mixture richP Pump on	■ Engine Instcheck
	Takeoff	P Prop ····· high RPM	■ Short Flow
	▶"Lights₁ Camera₁ Action"	• S Seat Belts ···· secure	► Windmill Restart
	• Electric Pump ······ on	• F Flaps ···· as required	• Airspeed ····· 70-80 KIAS
	• Mixture/Prop/Throttle	. T/O	• Mags• · · · · both
	► Engine Instgreen		• Mixture lean then
		▶ Trim ····· as required	slowly richen
\bigcup	► Safe Altitude	► Lights ····· as required	► Stationary Restart
		► Approach Speed ······ 73-58	• Airspeed ····· 80 KIAS
	•	► (Air Conditioner ······ off)	• Electrical ····· off
	• Lights ····· as required		• Avionics·····off
		Go Around	• Master · · · · on
	Climb	► Throttle ···· full	• Mags• ····· start
		► Vy 67-54 KIAS	
		► Flaps T/0	• Fuel Selector ····· off
	• Flaps ······· UP		• Mixture ····· idle cutoff
		• Prop 2400 RPM	• Mags • · · · · off
	• >5000 hold const. EGT	• <u>Pump</u> off	• Master ····· off
	► Prop 2400 RPM	• Lights ······ as required	Belt and Seat······ checkFlaps···· LDG (when able)
\ /	► Throttle ····· full	• Cruise Climb	• Unlatch Door?/Brace
	► Engine Inst green	Post-Landing	
	► Trim ····· as required ► High Altitude ··· pump on	► Throttle ······ 1000 RPM	Engine Fire
		► Mixture ···· lean	► Cabin Heat ····· off
	(ruise	▶ Flaps ···· UP	► Emergency Descent
		► Electric Pump ····· off	► Landing is ensured
		▶ Pitot Heat ····· off	Fuel Selector ······ offThrottle ···· full
		► Trim T/0	• Pump ······ off
	► Mixture	▶ Lights ····· as required	• Master · · · · · on
		▶ Clearance ····· obtain	• Emergency Windows ··· open
	• Best ···· 100°F(55°C) lower	CO Contamination	► Engine-off Landing
	• Higher Power ····· richen	► Cabin Heat ····· off	Electrical Fire
()	► High Altitude ···· pump on	► Ventilation ····· open	► Emergency Switch ···· on
	► Flow Check (15 min)	► Emergency Windows ···· open	► Master ····· off
	■ Trim¬ Switch Tanks	► Canopy ···· open (partially	► Cabin Heat ······ off
	• Mixture/Prop/Throttle	DO NOT unlock rear door	► Emergency Windows ···· open
	• Flaps - Engine Inst.	during flight)	► Canopy partially
	• Pump₁ Mag•₁ Master • CHT····· 150-400°F		► Land ASAP
	► 0i1 165-220°F	Engine Failure	
	. AII	► Short Flow	