DA40-180 (Ted Yin vl.l)	• Mixture ······ 1-3 sec	• Indicators ····· check
Ground Operations	► Cold	■ Throttle ·····idle
Initial	• Mixture ····· 3-5 sec	• Throttle ······ 1000 RPM
	• Throttle ···· 🗓 • 4"	
► Papers ········· A·R·O·W·	▶ "Clear Prop!"	• Each Tank ···· l min¬ l500
► Fire Extinguisher ···· check	▶ Mags• · · · · start	
Mags key out	• Mixture·····rich	► ELT····· check (121.5)
/►Electrical ····· off		► Avionics ····· off
► Avionics ······ off	► Mixture ······ lean (peak)	► Electrical ····· off
► Essential Bus · · · · · off	▶ 0il Pressure ····· 15 sec	• ACL Strobes ···· on
➤ Mixture·····idle cutoff ➤ Prop·····high RPM	► Electric Pump·····off	► Throttle············1000 RPM
► Throttle·····idle	► Alternators · · · · on	► Mags off then both
► Master ····· on	► Engine Indicators ··· check	► Mixtureidle cutoff
► Flaps ····· check & set T/0	Pre-Taxi	► Mags. · · · · key out
► Lights/Pitot ······ test	► Flaps ······ UP¬ then T/0	▶ Tach Time · · · · · note
► Fuel ······ note	▶ Lights · · · · · as required	► (Standby Alternator · off)
► Master off	► Avionics ····· on/set	▶ Master ···· off
► Controls free & correct	► Fuel Totalizer ····· enter	
➤ Hobbs Time ······· note	► ATIS····· PFD/backup/(AP)	▶ Flight Plan·····close
		► Hobbs Time ····· note
Walkaround	\blacktriangleright Transponder $\cdots\cdots$ check	▶ Under Seatscheck
► Fuel/0il······ test/sample	· CICCI /IL/IIOI (IIC// IC	► Gust Lock·····on
► Caps/Drains/Vents		▶ Pitot Cover····on
► Surfaces/Controls	▶ Brakes ····· release/test	► Tiedowns/Chocks·····on
► Exhaust/Antennas	Run-Up	► Canpoy/Door ······ lock
► Prop/Air Intakes x3	▶ Brake ···· set	Flooded Engine
► Pitot/Static/Stall	► Seat Belts ····· check	► Electric Pump·····off
► Struts/Tires/Brakes		► Mixture… lean (full aft)
► Ties/Chocks	▶ Door Warning off	► Throttle · · · · · mid position
► Canopy/Door ► Final Walkaround	_	▶ Mags•····start
	► Instruments	► When engine fires:
Pre-Start	• Alternate Static ··· check	• Throttle ····· idle
/⊳Passengerbrief	• GPS/System/Anncheck	• Mixture ···· rich (rapidly)
► Rear Door ····· secure	■ AP ······ MET/HDG	► Finish up normal start
► Canopy ···· pos. 1/2	• Heading/Altitude ····· set	
► Seat Belts ···· on	• Com/Nav/FPL · · · set	▶ Vr
▶ Brakes · · · · test/set	• MFD Range/Track Up ··· set	► Vs0 · · · · · · · · · · · · · · · · · · ·
► Circuit Brkrs. · · · · · check	• Instruments · · · · scan	► Mass ··· 2646/2535/2205/1874
►Strobe (ACL) ····· on	• Lights as required	• Vg ······ 7Ь/73/Ь8/Ь0
► Avionics ····· off	► Engine	• Vy(Up) ······· 76/73/68/60
► Essential Bus · · · · · off	• Fuel Selector ···· fullest	• Climb(T/0) ···· 67/66/60/54
► Mixture ····· idle cutoff	• Mixture·····rich	• Approach
► Prop ····· high RPM	• Throttle ····· 2000 RPM	· Up······ 76/73/68/60
► Friction adjust	• Cycle Prop x3··· -250~500	· T/0 · · · · · · · 74/72/66/59
Master (Battery) on	• Mags• L/R···· -175₁ +/-50	· LDG · · · · · · · 73/71/Ь3/58
✓ ► Rudder Pedals ······ adjust	• Alternate Air ····· check	► Va MÄM 40-227
► Glood DB Date · · · · · check	•(Standby Alternator)	• yes······ 111 @ 2646-2284
► Fuel Selector ······ least	· Master (Alt.)·····off	• no ······ 108 @ 2535-2161
Start	· STBYALT ON · · · · · on	• o/w····· 94 @ <2284/2161
► Throttle·······················1.2"	· Electrical Load · increase	► Bank: 30/45/60° ·· 58/68/83
► Electric Pump ···· on	CEDUAL EL ANI	
► Warm	· STBYALT ON ······ flashing · Master (Alt.) ····· on	

In-Flight Operations	Descent	2. Mixture full/check
Pre-Takeoff	► Mixture ··· richen slowly	3. Pump on
	► Throttle ····· as required	4. Alternate Air on
► Abort Plan/Lost Comm.	1.000 DUOD DDM	5.Magscheck all
► Canopy/Door ············· loc	> 115 ala A 1 & 5 & 1 ala 10 mm 200	► Glide and Trim
► Trim	L CUT Cool Down	• Airspeed ···· 76-60 KIAS
► Fuel Selector ····· fulles	L	• Windmill ······ 1.45nm/lkft
Flaps T/	v	• Stationary ····· 1.7nm/lkft
► Mixture ····· ric		► Wind and Landing Site
	M ► ATIS/Rwys/Approach Plan	► Longer Flow
▶ Pitot Heat ···· as require		• Engine Instcheck
► (Air Conditioner ······ off		• Short Flow
► Review Airspeeds	• M Mixture ····· rich	► Windmill Restart
► Time ····· note/star	· · · · · · · · · · · · · · · · · · ·	• Airspeed ······ 70-80 KIAS
Takeoff	Prop high RPM	• Mags• · · · · both
►"Lights, Camera, Action"	• Seat Belts secure	
Electric Pump o	• F Flaps ···· as required	• Mixture ····· lean then
Mixture/Prop/Throttle	ZAIX &LC>	slowly richen
► Engine Instgree	ZAIN LP>Odl · .	Stationary Restart
► Vr ····· 59, then ···· 67-6	▶ Irimas required	• Airspeed ····· 80 KIAS
► Safe Altitude	」▶Lightsas required	• Electrical ····· off
	▶ Approach Speed ····· 73-58	• Avionics·····off
• Prop ····· as require		• Master ···· on
• <u>Pump</u> of		• Mags• ···· start
• Lights as require	Throttle full	► Engine-off Landing
Climb	► Vy 67-54 KIAS	• Fuel Selector ····· off
► T/0: Vv······· 67-54 KIA	S ► Flaps ····· T/0	Mixture ····· idle cutoff
► Cruise ······ 76-60 KIA	S ► Safe Altitude	• Mags• ···· off
• Flaps U		• Master ···· off
► Mixture ····· ric		• Belt and Seat check
• >5000 hold const. EGT	• Lights as required	•Flaps·····LDG (when able)
▶ Prop as require	_	Unlatch Door?/Brace
Throttle ful		Engine Fire
		► Cabin Heat ····· off
► Trim as require	Throttle 1000 RPM	► Emergency Descent
	TIZATORI C	► Landing is ensured
► High Altitude ···· pump o	7 Tups	• Fuel Selector ····· off
(ruise	► Electric Pump ····· off	• Throttle ····· full
►Flaps······U	Pitot Heat ····· off	• Pump ····· off
► Throttle ····· 21-24	¬ ► Trim T/0	• Master ····· on
▶ Prop 1800-2400 RP	y ► Lights ····· as required	• Emergency Windows ··· open
► Mixture	▶ Transponder···· as required	► Engine-off Landing
■ Economy ··· max EGT ₁ <=75	y ► Clearance ····· obtain	
■ Best · · · 100°F(55°C) lowe	(Electrical Fire
• Higher Power riche	n ► Cabin Heat·····off	► Emergency Switch·····on
► High Altitude ···· pump o	. 11	► Master · · · · off
Flow Check (Als min)	► Emergency Windows ···· open	► Cabin Heat ····· off
■ Trim - Switch Tanks	► Canopy ···· open (partially	► Emergency Windows ···· open
Mixture/Prop/Throttle	DO NOT unlock rear door	► Canopy ···· partially
·	during flight)	► Land ASAP
• Flaps₁ Engine Inst. • Pump₁ Mag∙₁ Master		
► CHT	Engine Failure	
► 0i1	- 31010 1 10W	
	l.Fuel Selector ···· fullest	