	DA40-180 (Ted Yin v1.2)	• Mixture ······ 1-3 sec	· Master (Alt.) ····· on
	Ground Operations	► Cold	· STBYALT ON····· dark
$\bigcirc$	Initial	• Mixture ····· 3-5 sec	· Elect· Load······ normal
		• Throttle ····· D•4	• Throttle · · · · idle
	► Papers A.R.O.W.	►"Clear Prop!"	• Throttle · · · · · · 1000 RPM
	► Mags · · · · · key out	▶ Mags•····start	• Mixture ········lean
	► Electrical ······ off	• Mixture ······ rich	• Each Tank ···· 1 min₁ 1500
	► Avionics ······ off	► Throttle············1000 RPM	Shutdown
	► Essential Bus · · · · · off	► Mixture ······· lean (peak)	
	► Mixture ····· idle cutoff	► 0il Pressure ······ 15 sec	Avionics off
	▶ Prop ····· high RPM	► Electric Pump······ off	► Electrical ······ off
	► Throttle ·····idle	► Alternators ···· on	• ACL Strobes on
	► Master ····· on	► Engine Indicators ··· check	
	▶ Flaps ····· check & set T/0	Pre-Taxi	► Mags · · · · · off then both
	▶ Lights/Pitot ····· test	► Flaps ······ UP₁ then T/0	► Mixture ····· idle cutoff
	▶ Fuel · · · · · note	► Lights ····· as required	► Mags key out
	▶ Master ···· off	► Avionics ····· on/set	► Tach Time ······· note  ► (Standby Alternator ·· off)
	► Controls… free & correct	► Fuel Totalizer ······ enter	► Master ····· off
$\bigcirc$	► Hobbs Time ···· note	► ATIS ······ PFD/backup/(AP)	
$\bigcup$	Walkaround	▶ Radio · · · · test	Post-Flight
		► Iransponder · · · · · · · · · · · · · · · · · · ·	► Flight Plan ······ close
	► Caps/Drains/Vents	► Check ······· AI/HSI(MC)/TC	
	► Surfaces/Controls	► Clearance · · · · obtain	
	► Exhaust/Antennas		► Gust Lock ····· on
	► Prop/Air Intakes x3	Run-Up	► Covers/Tiedowns/Chocks · on
	► Pitot/Static/Stall	▶ Brake ···· set	
	► Struts/Tires/Brakes	► Seat Belts·····check	
	► Ties/Chocks	► Canopy/Door ··········· lock	
	► Canopy/Door	▶ Door Warning · · · · · off	
	►Final Walkaround	► Flight Controls · · · · · check	
	Pre-Start	► Instruments	▶ Mags start
$(\ )$	▶ Passenger · · · · brief	• Alternate Static ···· check	
)	▶ Rear Door ····· secure	<del>-</del>	• Throttle · · · · · idle
	► Canopy pos. 1/2		• Mixture ···· rich (rapidly)
	► Seat Belts · · · · on	• Heading/Altitude ······ set	
	▶ Brakes · · · · test/set	• Com/Nav/FPL ···· set	MEI Specas (NEMS)
	► Circuit Brkrs check	• Trothymente	▶ Vr 59
$\bigcirc$	► Strobe (ACL) ····· on	• Lights as required	► VsD····· 49₁ Vsl···· 52
	► Avionics ····· off	► Engine	11000 - 2010/ 200/ 2011
	► Essential Bus·····off	-	• <b>V</b> g······76/73/68/60
	► Mixture ······idle cutoff	<ul><li>Fuel Selector ····· fullest</li><li>Mixture ····· rich</li></ul>	• Vy(Up) ······ 76/73/68/60
	▶ Prop ···· high RPM	• Throttle ····· 2000 RPM	• Climb(T/0) ···· 67/66/60/54
	▶ Friction ····· adjust	• Cycle Prop x3250~500	<ul><li>Approach</li></ul>
	► Master (Battery) ···· on	• Mags • L/R ···· -175, +/-50	· Up····· 7Ь/73/ЬВ/ЬО
	► Rudder Pedals ····· adjust	• Alternate Air ······· check	· T/0 ······ 74/72/46/59
	► GlOOO DB Date ····· check	• Indicators ······ check	· LDG · · · · · · 73/71/63/58
	►Fuel Selector······least	• (Standby Alternator)	► Va MÄM 40-227
	Start	· Master (Alt.) · · · · · off	• yes 111 @ 2646-2284
	► Throttle ······ 1.2"	· STBYALT ON · · · · · · · glow	• no ······ 108 @ 2535-2161
	► Electric Pump ····· on	· Elect. Load ······ increase	• o/w······ 94 @ <2284/2161
	► Warm	· STBYALT ON ······ flashing	► Bank: 30/45/60° · 58/68/83
		. ====	

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   1 a 1 ala   1 a 1 ala	► 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	<ul><li>Mixture ····· idle cutoff</li></ul>
► 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	_	<ul><li>Unlatch Door?/Brace</li></ul>
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 <sub>1</sub> <=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	