DA4O-18O (Ted Yin vl.l)	• Mixture ······ 1-3 sec	• Indicators ····· check
Ground Operations	► Cold	■ Throttle ·····idle
Initial	• Mixture ····· 3-5 sec	• Throttle ······ 1000 RPM
	• Throttle ···· D.47	
► 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
·	► Alternators · · · · on	► Mags off then both
► Throttle ···· idle ► Master ··· on	► Engine Indicators ··· check	► Mixtureidle cutoff
► Flaps ····· check & set T/0	Pre-Taxi	► Mags. · · · · key out
► Lights/Pitot ······ test	► Flaps ······ UP₁ 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	► Transponder · · · · · · check	► Under Seatscheck
► Fuel/0il····· test/sample	► Check ······ AI/HSI(MC)/TC	► Gust Lock·····on
► Caps/Drains/Vents	► Clearance ····· obtain	▶ 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		► Electric Pump·····off
► Struts/Tires/Brakes		► Mixture…·lean (full aft)
► Ties/Chocks	, ,	► Throttle ····· mid position
► Canopy/Door	-	▶ Mags• ····· start
► Final Walkaround	► Instruments	► When engine fires:
Pre-Start	• Alternate Static ··· check	• Throttle ····· idle
/⊳Passenger····brief		Mixture ···· rich (rapidly)
▶ Rear Door ····· secure	• AP MET/HDG	
► Canopy ···· pos. 1/2	• Heading/Altitude ····· set	
► Seat Belts ···· on		► Vr 59
▶ Brakes ····· test/set	• MFD Range/Track Up ··· set	► VsD······ 49, Vsl····· 52
► Circuit Brkrscheck	• Instruments ······ scan	► Mass ··· 2646/2535/2205/1874
►Strobe (ACL) ···· on	• Lightsas required	
► Avionics ····· off	► Engine	 Vg · · · · · · · · · · · · · · · · · · ·
► Essential Busoff	• Fuel Selector ····· fullest	the state of the s
► Mixtureidle cutoff	• Mixture ······ rich	Climb(T/0) ···· 67/66/60/54Approach
►Prop ···· high RPM	• Throttle ····· 2000 RPM	""
► Friction ····· adjust	• Cycle Prop x3···250~500	· Up······ 76/73/68/60 · T/0····· 74/72/66/59
> Master (Battery) ···· on	■ Mags • L/R ··· -175 +/-50	· LDG · · · · · 73/71/63/58
✓ ► Rudder Pedals ····· adjust	• Alternate Air ······ check	► Va · · · · · · · · · · MÄM 40-227
► Glooo DB Date ····· check	• (Standby Alternator)	Va ····································
► Fuel Selector ······ least	· Master (Alt.) ····· off	• yes······ 111 @ 2646-2284
Start	· STBYALT ON · · · · · on	• no ······ 108 @ 2535-2161
► Throttle ···································	· Electrical Load increase	• o/w 94 @ <2284/2161
▶ FIECTLIC Laulb	· STBYALT ON ······· flashing	► Bank: 30/45/60° ·· 58/68/83
► Electric Pump·····on ► Warm		► Bank: 3U/45/6U° · 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 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 Seatcheck
• >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	

	Cl72S-Gl000 (Ted vl.2)	► Mixture ····· 3/4 rich	Takeoff
	Initial	▶ "Prop Clear!"	▶ "Lights 1 Camera 1 Action"
,	Papers ····· A.R.O.W.	▶ Mags• · · · · start	Mixture/Throttle
,	Control Lock off	► Throttle · · · · · · 1000 RPM	▶ Engine Inst green
	► Mags• ····· key out	► Oil Pressure ···· 30 secs•	▶ Vr 55 kts
	Mixtureidle cutoff	▶ Volts/Amps····· [>26] [>0]	▶ Vx···· 62 kts₁ Vy···· 74 kts
\bigcirc	► Throttle····idle	▶ Mixture ····· lean for taxi	Climb / Cruise
	Avionics off	Pre-Taxi	
,	Fuel Shutoff ···· on	▶ Flaps ····· up	► Cruise Climb ····· 75-85 kts
'	► Fuel ···· both	▶ Lights · · · · · as required	• Flaps up
1	► Master ···· on	▶ Avionics ····· on/set.	► Mixture ········ lean >3000
1	► Fuel ····· note	⇒ GPS 29b Adte	► Flow Check (↑15 min)
	► Flaps ····· down	▶ Fuel Totalizer ····· enter	• Fuel, Trim
1	► Lights/Pitot····· test	► ATTS ····· PFD/hackun/AP(2)	• Flaps • Engine Inst
1	Avionics on/off ····· fans	▶ Radio test	• Mixture, Throttle
,	► Master ····· off	▶ Transponder · · · · · · squawk	• Master₁ Mag∙₁ Pump
,	► Hobbs Time ····· note	► Check ····· TC/AI/HSI<->MC	Descent
	Walkaround	$ ightharpoonup$ Clearance $\cdots\cdots\cdots$ obtain	► Mixture ····· richen slowly
	Fuel/0il····· dip/sample	▶ Brakes···· test	▶ Throttle ····· as required
1 1	Caps/Drains/Vents	Run-Up	► Flow Check
	Surfaces/Controls		Dog-Landing
,	Exhaust/Antennas	▶ Brakes ····· set	Pre-Landing
,	► Prop/Belt/Air Intake	► Seat Belts · · · · · · check	► ATIS/Rwys & Patterns
,	Pitot/Static/Stall	► Doors/Windows · · · · · secure	
,	► Gear/Tires/Brakes	► Flight Controls ··· correct ► Instruments ··· scan	• G: Fuel ····· on/both
,	►Ties/Baggage Door	► Alternate Static ···· check	• M: Mixture ······ rich
,	►Final Walkaround	► AP MET/HDG	• S: Seat Belts ····· secure
	Pre-Start	▶ Trim takeoff	• F: Flaps ····· as required
		► Fuel ····· on/both	▶ Trim····· as required
	► Belts/Seat Track	► Hdq./Alt. Bugs	► Ldg • Light · · · · on
	Brakes·····check₁ set		► Approach ····· 80-65 kts
	Circuit Brkrscheck	► MFD Range/Track Up	Post-Landing
	Passenger brief	► Comm/Nav/V0R/FP	► Throttle ······ 1000 RPM
	▶ Beaconon	► Mixture ····· rich	► Mixture ····· lean
	Avionics off	► Throttle············1800 RPM	▶ Flaps ····· up
	Fuel both	► Mags 150, 50	▶ Pitot Heat ···· off
		► Engine Inst check	▶ Trim ····· takeoff
	Start	► Idle Check	▶ Lights · · · · as required
,	Stby. Battery ···· test/arm	► Throttle ······ 1000 RPM	► Clearance ····· obtain
	Engine Indno Xs	► Mixture ······ lean	Shutdown
	• Volts · · · · · · □E>24 □ □M<1.5□	▶ Lights · · · · as required	
	Amps S<0/ann on	\blacktriangleright ADSB Handheld $\cdots\cdots\cdots$ on	► ELT······ check (121.5) ► Avionics···· off
'	Prime:	Pre-Takeoff	
	• Mixture ······ idle cutoff		▶ Lights · · · · off
	• Brakes ····· secure		Beacon on
)		► Fuel ····· on/both	
		► Flaps □-1□°	
		► Mixture ····· rich	
	·	► Aux · Pump ····· off	► Master off
	·warm: D-3 sec	► Review Airspeeds	► Tach Time note
	· cold: 3-5 sec	► Time · · · · · note/start	
	- Aux • Fullip ······ UII		

	Post-Flight
	➤ ADSB Handheld ········ off ➤ Tiedowns/Chocks ➤ Pitot Cover ➤ Fuel ······ switch to L/R ➤ Gust Lock ➤ Close Flight Plan
)	► Hobbs Time ····· note
	► Check Under Seats ► Cabin / Baggage······lock ► Post-Flight Walkaround
	Engine Failure
)	► Short Flow Fuel
)	• Fuel off • Mixture idle cut-off • Prop/Throttle off • Mags off • Master off • Belt and Seat check • Unlatch Door • Brace

► Approach····· 80/70/65 kts

Flight Planning Checklist (Ted Yin v0.5)

Airports

- ► ATIS/Tower/Ground Frequencies
- ► Runways and Pattern
 - Rwy Length
 - Multiple Rwys?
- TPA & Directions
- ▶ Descent and Approach Plan
- Slow Down (engine cooling)
- Reach TPA in time with stable rate
- Terrain Hazards
- ► Taxiways and FB0 (Refueling)
- ► Obstructions/Mountains
- ► Emergency Landing during T/0
- ► Airport Guide (check website)

Route

- ► Cruising Altitude
 - Westerly vs. Easterly (even/odd kft)
- √ Glide Range
 - Terrain Separation (e⋅g・ 2000+)
 - Cloud Clearance (Detour?)
 - Climb Performance & Oxygen
 - ▶ Obstructions
 - ▶ Flat Land vs. Mountains
 - Highway is a good start
 - ► SUA/TFR
 - ► Fuel Reserve & Diversions

<u>Ai</u>rcraft

- ► Fuel
- ▶ Weight and Balance
- MTOW
 - CG before/after the flight
 - ▶ T/O & LDG distance to clear obstacles

Weather

- ► Airports
 - Ceiling
 - Visibility
 - Wind (crosswind, gusts)
 - Density Altitude
- ► En Route
 - Cloud Base & Coverage
 - Wind Aloft
 - Icing (freezing point, day/night?)
 - AIRMET & SIGMETs
 - · IMC
 - · Convective Weather
 - · Known Icing Conditions
- ► Global Picture
 - Fronts
 - Satellite Image (trend of moisture)
- ► Resources

- AWC https://aviationweather.gov/
- Windy https://www.windy.com/
- COD https://weather.cod.edu/satrad/

Before Go

- ► This Sheet
- ► Leidos (1800wx) Briefing
- ▶ PPL & Med & Driver's License
- ► Flight Bag
- ► Garmin inReach Beacon
- ▶ iPad: foreflight pack up
- ► Water & Energey Bars
- ► "IMSAFE" & "PAVE"