DA40-180 (Ted Yin vl.Oa)	► Electric Pumpon	
Ground Operations	► Warm ■ Mixture	Throttle
Initial		ık l min.
Extinguisher ch	• Mixture	Shutdown • ELTcheck (121.5)
► Mags key out	► "Prop (lear!" ► Magsstart	► Avionicsoff ► Electricaloff
► Avionics off Essential Bus off	ure	Sar
idl	► Inrottleluuu KPM ► Mixturelean (peak)	ThrottlelDDD RPM Magsoff then both
► Prophigh RPM ► Throttleidle	1.5	i
	► Electric Pump	▼Mags・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
eck & set	•	Alternator ··
Fuel Pumpcheck	Fuel Pressure · 14-35 psiVolts/Amps · 25-30V/2-75A	► Master off
	Pre-Taxi	(ADSB Handheldoff)
► Masuer	►FlapsUP, then T/0	. Plan
	as re	Time
Walkaround	► Avionicson/set	▼ Under SeatsCheck
▶ Fuel/0il······ test/sample	► Fuel Totalizer encer ► ATIS PFD/backup/AP(?)	Cover
► Caps/Drains/Vents		
▼ Stall Strips/Fairings	► Transponder ··········· check	► Canpoy/Door lock
► Exhaust/Antennas	▼ CTeck IC/AL/HSIS-711C	oded Engine
▶ Prop/Air Intakes x∃	releas	► Electric Pumpoff ► Mixturelean (full aft)
Fitot/static/stail	Run-Up	id posi
▼ Strucs/IIres/Brakes ▼ Ties/Chocks	▶ Brake ·····set	
► Canopy/Door		ne fires:
)►Final Walkaround	► Canopy/Doorlock	ThrottleidleMixtupe pich (papidly)
Pre-Start	o1s	normal
		\mathbf{H}
► Kear Doorsecure	: : U	F 4V •
elts	System/Ann.	
.str	■ AP [TE]/HDG	· 2646/253
t Brkrs ch	:	• Vg
► Strobe (ACL)on	• MFD Range/Track Up ··· set	[/0]
1 Bus	ments	 Approach
eidle	Lights as required(ADSB Handheld on)	· Up · · · · · · · · · · · · · · · · · ·
► Friction adjust		
Battery)	• Fuel Selector ····· fullest	Ξ:
► Rudder Pedals adjust	DZ	• yes 1,1,1, a) 2646-2284 • no 1,08 a) 2535-21,6,1
Selector	Cycle Prop x3 ··· -250~500Mags. L/R ··· -1,75, +/-50	94 a <2
Start	late Air	▼ urn: 3U/45/6U~ :: 36/66/63
▶ Throttle······ 1.2"	• Indicators ······ check	

• Pump Off • Lights as required Climb T/0: Vy 67-54 KIAS Cruise 76-60 KIAS Cruise 76-60 KIAS • Flaps UP Mixture rich • >5000 hold const. EGT Prop 2400 RPM Throttle green Trim as required High Altitude pump on Cruise Flaps UP Throttle 21-247 Prop 120-2400 RPM Mixture • Flaps 1600-2400 RPM Mixture • Flaps 1600-2400 RPM Mixture • Flaps 1600-7500 lower • Higher Power richen High Altitude pump on Flow Check (~15 min) • Trim, Switch Tanks • Mixture/Prop/Throttle • Flaps, Engine Inst. • Pump, Mag., Master CHT 150-4000F Oil 155-2200F	t Operations Pre-Takeoff Nan/Lost Comm. Door 1 elector full elector full nditioner c Airspeeds Airspeeds Camera, Actio re/Prop/Throttle Inst. gr 59, then 57 titude 2400
(Air Conditioner Off) Go Around Throttle full Vy 57-54 KIAS Flaps 7/0 Safe Altitude Prop 2400 RPM Pump off Lights as required Cruise Climb Post-Landing Throttle lean lean Flaps 1000 RPM Mixture leat 1000 RPM Mixture as required Trim 7/0 Lights as required Transponder as required Transponder as required Clearance obtain CO Contamination Cabin Heat open Clabin Heat open Canopy open (partially- Ventilation open Canopy open (partially- Do NOT unlock rear door during flight) Engine Failure Short Flow	Descent ture riche bttle as ltitude Cool Down 500F(22.8°C)/n Pre-Landing Fre-Landing Frel Selector Mixture Pump Prop Pump Prop Pags as Flaps as
Landing tor idle cut idle cut Seat ch Go (when ak oor?/Brace ne Fire ensured tor Landing Landing ical Fire whitch bartia	fullest 2. Mixture full/check 3. Pump on 4. Alternate Air on 5. Mags. check all 6lide and Trim Airspeed 76-60 KIAS Windmill Restart Ulindmill Restart Longer Flow Engine Inst. check Short Flow Mindmill Restart Airspeed 70-80 KIAS Mags. both Mixture lean then slowly richen Stationary Restart Airspeed 80 KIAS Flectrical off

(5,725,000 (Ted v1,2)	▼ Mixture3/4 rich	Takeoff
nitial	lear!"	▼" ichts. (amera. Action
III O B A	▶ Mags• ·····start	/Throttle
1 Lock	tle	► Engine Instgreen
	ne عا د ادراً	55
eidle cu	▼ Volts/Amps [L>EB] [L>U] ▼ Mixture lean for taxi	► Vx···· L2 kts، Vy···· 74 kts
)▶ Throttleidle ▶ Avionics	ive_Tavi	Climb / Cruise
toff	1 VD -	► Cruise Climb···· 75-85 kts
	Ch	• Flaps
	3	
▶ Fuelnote		►Flow Check (~15 min)
▶ Flapsdown	▶ Fuel Totalizer enter	• Fuel, Trim
/Pitot	► ATIS ······ PFD/backup/AP(?)	_
cs on/off f	▶ Radio test	■ Mixture, Inrottle
· · · · · · · · · · · · · · · · · · ·	► Transponder ·····squawk	■ Master, Mag., Pump
► Hobbs Timenote	► Check ······· TC/AI/HSI<->MC	Descent
Walkaround	► Clearance ······obtain	► Mixture richen slowly
► Fuel/0ildip/sample	▶ Brakes ······ test	► Throttle as required
ins/Vent	Run-Up	►Flow Check
► Surfaces/Controls	▼ Brakes	Pre-Landing
Exhaust/Antennas	1+4	ATTS / Comment of the
► Prop/Belt/Air Intake	Alfodous	MAILS/ RWYS & Patterns
Pitot/Static/Stall	:	
► Gear/Tires/Brakes		Fuel
▶ Ties/Baggage Door	1 + 1	Mixtu
▶ Final Walkaround		Seat Belts ····
Pre-Ntant		laps ····· as
		► rımas required
eat Track	Sugs Pan/aca	► Approach ······· &D-L5 kts
	MEN REPORT / LINE I ESC.	Post-Landing
rkrs•	Mainge/11 ack	Throt+1e Throt
	Mixture Asia	
► Beaconon	<u>a.</u>	
		Hoat
► Fuel both		ַבְּפֵּרָר
Start		ע יי
▶ Stby. Battery ···· test/arm	Throttle	a)t
a.		
► Volts [E>24] [M<1.5]	עת	Shutdown
► Amps S<0/ann on	בם לרוסלסמב	► ELTcheck (1,21,.5)
▶ Prime:	Abab nariarieza ori	► Avionics ······off
• Mixture idle cutoff	Pre-Takeoff	► Lights off
	► Abort Plan/Lost Comm.	• Beacon on
		► Throttlelooo RPM
• Throttleslight	► Flaps	► Mags off then both
	▶ Mixture ············	► Mixtureidle cutoff
■ Mixture prime	► Aux • Pump	key
·warm: 0-3 sec	▶ Pitot heatas required	
: 3 - 5 sec	w Airspeed	Time
■ Aux. Pumpoff	▶ Timenote/start	▶ \tby. Batteryoff

Flight Planning Checklist (Ted Yin v0.5)

AWC https://aviationweather.gov/ Windy https://www.windy.com/

COD https://weather.cod.edu/satrad/ Before Go

► ADSB Handheld····off

- ► ATIS/Tower/Ground Frequencies
- ► Runways and Pattern
- Rwy Length
- Multiple Rwys?
- TPA & Directions
- ▶ Descent and Approach Plan

► Flight Bag

► PPL & Med & Driver's License ► Leidos (1800wx) Briefing ► This Sheet

- Slow Down (engine cooling)
- Reach TPA in time with stable rate
- Terrain Hazards
- ► Taxiways and FB0 (Refueling)

► "IMSAFE" & "PAVE" ▶ Water & Energey Bars ► iPad: foreflight pack up ► Garmin inReach Beacon

- ► Emergency Landing during T/0 ► Obstructions/Mountains
- ► 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
- ▼ SUA/TFR Highway is a good start
- ► Fuel Reserve & Diversions

Aircraft

- ▶ Fuel
- ▶ Weight and Balance
- CG before/after the flight
- ▶ T/0 & LDG distance to clear obstacles

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