

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..... on/both
- Mixture..... full/check
- Electrical Pump..... on
- Alternate Air..... on
- Mags..... check all
- ▶ Glide and Trim
- Speed: 68 kts
- Ratio: 9, 1.48nm/1000ft
- ▶ Wind and Landing Site
- ▶ Longer Flow
- Engine Indicators
- Short Flow Again
- ▶ No Restart
- 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

DA40-1400 (Ted Yin v1.0)

Ground Operations

Initial

- ▶ Papers..... A.R-0-W-
- ▶ Fire Extinguisher..... check
- ▶ Mags..... key out
- ▶ Electrical..... off
- ▶ Avionics..... off
- ▶ Essential Bus..... off
- ▶ Mixture..... idle cutoff
- ▶ Prop..... high RPM
- ▶ Throttle..... idle
- ▶ Master..... on
- ▶ Flaps..... check & set T/O
- ▶ Lights/Pitot..... test
- ▶ Fuel Pump..... check
- ▶ Fuel..... note
- ▶ Master..... off
- ▶ Controls..... free & correct
- ▶ Hobbs Time..... note

Walkaround

- ▶ Fuel/Oil..... test/sample
- ▶ Caps/Drains/Vents
- ▶ Surfaces/Controls
- ▶ Stall Strips/Fairings
- ▶ Exhaust/Antennas
- ▶ Prop/Air Intakes x3
- ▶ Pitot/Static/Stall
- ▶ Struts/Tires/Brakes
- ▶ Ties/Chocks
- ▶ Canopy/Door
- ▶ Final Walkaround

Pre-Start

- ▶ Rear Door..... secure
- ▶ Rudder Pedals..... adjust
- ▶ Seat Belts..... on
- ▶ Parking/Brakes..... test/set
- ▶ Circuit Brkrs..... check
- ▶ Strobe (ACL)..... on
- ▶ Avionics..... off
- ▶ Essential Bus..... off
- ▶ Fuel Selector..... least
- ▶ Canopy..... pos. 1/2
- ▶ Passenger..... brief
- ▶ Start

- ▶ Prime
- Mixture..... idle cutoff
- Prop..... high RPM
- Friction..... adjust
- Master Bat..... on
- Throttle..... 1.2"

- Electric Pump..... on
- Warm
- Mixture..... 1-3 sec
- Cold
- Mixture..... 3-5 sec
- Throttle..... 0.4"
- ▶ Electric Pump..... off
- ▶ "Prop Clear!"
- ▶ Mags..... start
- Mixture..... rich
- ▶ Throttle..... 1000 RPM
- ▶ Oil Pressure..... 15 secs.
- ▶ Fuel Pressure..... 14-35 psi
- ▶ Master Alt..... on
- ▶ Volts/Amps..... 25-30V/2-75A
- ▶ Engine Inst..... no Xs
- ▶ Mixture..... lean (peak)

Pre-Taxi

- ▶ Flaps..... UP, then T/O
- ▶ Lights..... as required
- ▶ Avionics..... on/set
- ▶ GPS..... DB date
- ▶ Fuel Totalizer..... enter
- ▶ ATIS..... PFD/backup/AP(?)
- ▶ Radio..... test
- ▶ Transponder..... squawk
- ▶ Check..... TC/AL/HSI->MC
- ▶ Clearance..... obtain
- ▶ Brakes..... release/test

Run-Up

- ▶ Parking Brake..... set
- ▶ Seat Belts..... check
- ▶ Canopy/Door..... lock
- ▶ Door Warning..... off
- ▶ Flight Controls..... check
- ▶ Instruments..... scan
- ▶ Alternate Static..... check
- ▶ AP..... MET/HDG
- ▶ Trim..... T/O
- ▶ Fuel Selector..... fullest
- ▶ Heading/Altitude..... set
- ▶ Aux/GPS/Ann..... check
- ▶ MFD Range/Track Up..... set
- ▶ Comm/Nav/FPL..... set
- ▶ Mixture..... rich
- ▶ Throttle..... 2000 RPM

When engine fires:

- Throttle..... idle
- Mixture..... rich (rapidly)
- Finish up normal start
- ▶ Airspeeds (KIAS)
- Vr..... 59
- Vs0..... 49, Vs1..... 52
- Weights.....
- 2646/2535/2205/1874 lbs
- Vg..... 76/73/68/60
- Vy(Up)..... 76/73/68/60
- Climb(T/O)..... 67/66/60/54
- ▶ Approach Speeds
- Up..... 76/73/68/60
- T/O..... 74/72/66/59
- LDG..... 73/71/63/58
- Va

- ▶ Cycle Prop x3..... 250-500
- ▶ Mags. L/R..... -175, +/-50
- ▶ Alternate Air..... check
- ▶ Engine..... check
- ▶ Throttle..... idle
- ▶ Throttle..... 1000 RPM

Shutdown

- ▶ ELT..... check (12L,5)
- ▶ Avionics..... off
- ▶ Electrical..... off
- ACL Strobes..... on
- ▶ Throttle..... 1000 RPM
- ▶ Mags..... off then both
- ▶ Mixture..... idle cutoff
- ▶ Tach Time..... note
- ▶ Master..... off

Post-Flight

- ▶ ADSB Handheld..... off
- ▶ Flight Plan..... close
- ▶ Hobbs Time..... note
- ▶ Under Seats..... check
- ▶ Gust Lock..... on
- ▶ Pitot Cover..... on
- ▶ Tiedowns/Chocks..... on
- ▶ Canopy/Door..... lock
- ▶ Post-Flight..... walkaround

Flooded Engine

- ▶ Electric Pump..... off
- Mixture..... lean (full aft)
- ▶ Throttle..... 1/2 position
- ▶ Mags..... start

When engine fires:

- Throttle..... idle
- Mixture..... rich (rapidly)
- Finish up normal start
- ▶ Airspeeds (KIAS)
- Vr..... 59
- Vs0..... 49, Vs1..... 52
- Weights.....
- 2646/2535/2205/1874 lbs
- Vg..... 76/73/68/60
- Vy(Up)..... 76/73/68/60
- Climb(T/O)..... 67/66/60/54
- ▶ Approach Speeds
- Up..... 76/73/68/60
- T/O..... 74/72/66/59
- LDG..... 73/71/63/58
- Va

- MAM 40-227
- yes..... 1.1 @ 2646-2284
- no..... 108 @ 2535-2161
- o/w 94 @ below 2284/2161
- Steep Turn: <=45°, >=68

## In-Flight Operations

### Pre-Takeoff

- Abort Plan/Lost Comm. lock
- Canopy/Door..... fullest
- Fuel Selector..... T/0
- Flaps..... rich
- **Mixture**..... high RPM
- **Prop**..... as required
- Pitot Heat..... (Air Conditioner..... off)
- Review Airspeeds
- Time..... note/start

### Takeoff

- "Lights, Camera, Action"
- **Electric Pump**..... on
- Mixture/Prop/Throttle..... green
- Engine Inst..... 59, then 67-60
- Vr..... Safe Altitude
- **Prop**..... 2400 RPM
- **Pump**..... off
- Lights..... as required

### Climb

- T/0: Vy..... 67-54 KIAS
- Cruise..... 76-60 KIAS
- Flaps..... UP
- **Mixture**..... rich
- >5000 hold const. EGT
- **Prop**..... 2400 RPM
- **Throttle**..... full
- Engine Inst..... green
- Trim..... as required
- High Altitude..... pump on

### Cruise

- Flaps..... UP
- **Throttle**..... 21-24"
- **Prop**..... 1800-2400 RPM
- **Mixture**..... Economy..... max EGT, <=75% Best..... 100°F (59°C) lower
- Higher Power..... richen
- High Altitude..... pump on
- Flow Check (~15 min)
- Trim Switch Tanks
- Trim/Prop/Throttle
- Flaps, Engine Inst., Pump, Mag., Master
- CHT..... 150-400°F
- Oil..... 165-220°F
- **Mixture**..... Descent
- **Mixture**..... richen slowly

- **Throttle**..... as required
- **Prop**..... 1800-2400 RPM
- High Altitude..... pump on
- CHT Cool Down
- <= 50°F (12.8°C)/min.

### Pre-Landing

- ATIS/Rwys/Approach Plan
- "CCGMPSF"
- **G** Fuel Selector
- **M** **Mixture**..... rich
- **P** **Prop**..... high RPM
- **P** **Pump**..... on
- **S** Seat Belts..... secure
- **F** Flaps..... as required
- T/0..... <108 KIAS
- LDG..... <91 KIAS
- Trim..... as required
- Lights..... as required
- Approach Speed..... 73-56
- (Air Conditioner..... off)

### Go Around

- **Throttle**..... full
- Vy..... 67-54 KIAS
- Flaps..... T/0
- Safe Altitude
- **Prop**..... 2400 RPM
- **Pump**..... off
- Lights..... as required
- Cruise Climb

### Post-Landing

- **Throttle**..... 1000 RPM
- **Mixture**..... lean
- Flaps..... UP
- **Electric Pump**..... off
- Pitot Heat..... off
- Trim..... T/0
- Lights..... as required
- Clearance..... obtain

### C0 Contamination

- Cabin Heat..... off
- Ventilation..... open
- Emergency Windows..... open
- Canopy..... open (partially)
- D0 NOT unlock rear door during flight)

### Engine Failure

- Short Flow
- Fuel Selector..... fullest
- **Mixture**..... full/check
- **Pump**..... on
- Alternate Air..... on

- Mags..... check all

### Glide and Trim

- Airspeed..... 76-60 KIAS
- Windmill..... 1.45m/1kft
- Stationary..... 1.7m/1kft
- Wind and Landing Site
- Longer Flow
- Engine Inst..... check
- Short Flow

### Windmill Restart

- Airspeed..... 70-80 KIAS
- Mags..... both
- **Mixture**..... lean then slowly richen
- Stationary Restart
- Airspeed..... 80 KIAS
- Electrical..... off
- Avionics..... off
- Master..... on
- Mags..... start

### Engine-off Landing

- Fuel Selector..... off
- **Mixture**..... idle cutoff
- Mags..... off
- Master..... off
- Belt and Seat check
- Flaps..... LDG (when able)
- Unlatch Door?/Brace

### Engine Fire

- Cabin Heat..... off
- Emergency Descent
- Landing is ensured
- Fuel Selector..... off
- **Throttle**..... full
- **Pump**..... off
- Master..... on
- Emergency Windows..... open
- Engine-off Landing

### Electrical Fire

- Emergency Switch..... on
- Master..... off
- Cabin Heat..... off
- Emergency Windows..... open
- Canopy..... partially
- Land ASAP

## CL225-61000 (Ted v1.2)

### Initial

- Papers..... A.R.0.W.
- Control Lock..... off
- Mags..... key out
- Mixture..... idle cutoff
- Throttle..... idle
- Avionics..... off

### Pre-Taxi

- Fuel Shutoff..... on
- Fuel..... both
- Master..... on
- Fuel..... note
- Flaps..... down
- Lights/Pitot..... test
- Avionics on/off..... fans
- Master..... off
- Hobbs Time..... note

### Walkaround

- Fuel/Oil..... dip/sample
- Caps/Drains/Vents
- Surfaces/Controls
- Exhaust/Antennas
- Prop/Belt/Air Intake
- Pitot/Static/Stall
- Gear/Tires/Brakes
- Ties/Baggage Door
- Final Walkaround

### Pre-Start

- Doors..... secure
- Belts/Seat Track
- Brakes..... check, set
- Circuit Brks..... check
- Passenger..... brief
- Beacon..... on
- Avionics..... off
- Fuel..... both

### Start

- Stby. Battery..... test/arm
- Engine Ind..... no XS
- Volts..... [E>24] [M<1.5]
- Amps..... SCD/ann on
- P-time:
- Mixture..... idle cutoff
- Brakes..... secure
- Master..... on
- Throttle..... slight
- Aux. Pump..... on
- Mixture..... prime
- warm: 0-3 sec
- cold: 3-5 sec
- Aux. Pump..... off

- Mixture..... 3/4 rich
- "Prop Clear!"
- Mags..... start
- Throttle..... 1000 RPM
- Oil Pressure..... 30 secs.
- Volts/Amps..... [E>24] [M>1]
- Mixture..... lean for taxi

### Pre-Taxi

- Flaps..... UP
- Lights..... as required
- Avionics..... on/set
- GPS..... DB date
- Fuel Totalizer..... enter
- ATIS..... PFD/backup/AP(?)
- Radio..... squawk
- Transponder..... TC/Alt/HSI<->MC
- Check..... obtain
- Clearance..... test
- Brakes..... test

### Run-Up

- Brakes..... set
- Seat Belts..... check
- Doors/windows..... secure
- Flight Controls..... correct
- Instruments..... scan
- Alternate Static..... check
- AP..... MET/HDG
- Trim..... takeoff
- Fuel..... on/both
- Hdg./Alt. Bugs
- GPS/Status Bar/Ann. Test
- MFD Range/Track Up
- Comm/Nav/VOR/FP
- Mixture..... rich
- Throttle..... 1800 RPM
- Mags..... 150, 50
- Engine Inst..... check
- Idle Check
- Throttle..... 1000 RPM
- Mixture..... lean
- Lights..... as required
- ADB Handheld..... on

### Climb / Cruise

- Cruise Climb..... 75-85 kts
- Flaps..... UP
- Mixture..... lean >3000'
- Flow Check (~15 min)
- Fuel, Trim
- Flaps, Engine Inst., Mixture, Throttle
- Master, Mag., Pump

### Descent

- Mixture..... richen slowly
- Throttle..... as required
- Flow Check

### Pre-Landing

- ATIS/Rwys & Patterns
- "CCGMPSF"
- G: Fuel..... on/both
- M: Mixture..... rich
- S: Seat Belts..... secure
- F: Flaps..... as required
- Trim..... as required
- Ldg. Light
- Approach..... 80-65 kts

### Post-Landing

- Throttle..... 1000 RPM
- Mixture..... lean
- Flaps..... UP
- Pitot Heat..... off
- Trim..... takeoff
- Lights..... as required
- Clearance..... obtain

### Shutdown

- ELT Fuel..... check (121.5)
- Avionics..... off
- Lights..... off
- Beacon..... on
- Throttle..... 1000 RPM
- Mags..... off then both
- Mixture..... idle cutoff
- Mags..... key out
- Master..... off
- Tach Time..... note
- Stby. Battery..... off