- ► Fuel switch to L/R
  - ► Close Flight Plan **Gust Lock**
- ► 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: LB kts
- Ratio: 9, 1.48nm/l000ft ▶ Wind and Landing Site
  - Engine Indicators ► Longer Flow

    - Short Flow Again
    - No Restart
- Mixture idle cut-off Fuel - off
  - Prop/Throttle of
- Mags. off
- Master off
- Belt and Seat check
- Unlatch Door
- ► Approach 80/70/65 kts

# DA40-61000 (Ted Yin v0.6)

- ▶ Throttle 1000 RPM Controls - free & correct
- Mags. key out
  - ▶ Mixture idle cutoff
- \▼ Throttle idle
  - ▶ Electrical off
- Essential Bus off Avionics - off
  - . Master on
- Fuel Pump check
- Fuel note

► Flaps - up, then T/0

Pre-Taxi

- ► Flaps check & set T/0 ► Lights/Pitot - test
  - ► Master off
- ► Hobbs Time note

ATIS - PFD/backup/AP(?) Fuel Totalizer - enter

- )▶ Fuel/0il test/sample ▼ Canopy/Door - check
- Caps/Drains/Vents
- Stall Strips/Fairings Surfaces/Controls
  - Exhaust/Antennas
- Prop/Air Intakes x3
- Pitot/Static/Stall
  - Gear/Tires/Brakes
- ▼ Ties/Chocks
- ▶ Final Walkaround

### Pre-Star

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

- ▶ Prime
- Mixture idle cutoff Prop - high RPM
  - Friction adjust
- Master Bat. on
- Electric Pump on • Throttle - 1.2"
  - Warm
- 1-3 sec ·Mixture
- ·Mixture 3-5 sec

.Throttle - 0.4" "Prop (lear!"

Fuel Selector - fullest

► Papers - A.R.O.W.

Mags. - start

- Oil Pressure 15 secs
- Electric Pump off Master Alt. - on

Pitot Heat - as required

Time - note/start

Review Airspeeds

Electric Pump - on

Prop - high RPM

Mixture - rich

► Flaps - T/0

Volts/Amps - [25-30] [>0] Fuel Pressure - 14-35 psi Engine Inst. - no Xs

► Mixture - lean (peak)

 Prop - 2400 RPM Safe Altitude Lights - as required

Avionics - on/set

GPS - DB date

Vr - 59; then 67-60 KIAS

▼"Lights, Camera, Action"

Mixture/Prop/Throttle Engine Inst. - green

- Elect. Pump off
  - Ldg. Light off
- (0/L) (A
- 67-54 KIAS

Check - TC/AI/HSI<->MC

Transponder - squawk

Radio - test

Brakes - release/test

Clearance - obtain

- LB minus l.B for each 100 lbs under 2646
- ▼ (ruise
- Flaps up
- . Wy: 76-60 KIAS Prop - 2400 RPM Parking Brake - set Seat Belts - check
  - Canopy/Door lock
- Door Warning off

>5000 hold const. EGT

Mixture - rich

- Flight Controls correct
- Alternate Static check Instruments - scan
- AP MET/HDG

High Altitude - pump on

Engine Inst. - green

Throttle - full

▼ Trim - as required

- Trim T/0
- Fuel Selector fullest Hdg./Alt. Bugs
- GPS/Status Bar/Ann. Test MFD Range/Track Up
- Comm/Nav/V0R/FP Mixture - rich
- Throttle 2000 RPM

Economy: max EGT & <=75%

Higher Power - richen

► Prop - 1.800-2400 RPM

Mixture

► Throttle - Zl-Z4"

► Flaps - up

· Power: 100°F/55°C lower

Flow Check ( 215 min)

, Trim, Fuel

- (ycle Prop x3 250-500 Mags. L/R - 1,75, 50.
- Alternate Air check Engine Inst. - check

Mixture, Prop, Throttle

Flaps, Engine Inst.

. Pump. Mag., Master

▼ CHT: 1,50-400°F ▶ 0il: 145-220°F

- Idle Check
- Throttle 1000 RPM Mixture - lean
- Lights as required

### ADSB Handheld - on Pre-Takeoff

Abort Plan/Lost Comm

Canopy/Door - lock

- Mixture richen slowly Throttle - as required Prop - 1.800-2400 RPM

• G: Fuel Selector • downwind/fullest • M: Mixture - rich • P: Elect. Pump - on • P: Prop - high RPM • S: Seat Belts - secure • F: Flaps - as required • Ldg. Light - on • Approach - 73-58 KIAS • Trim - as required • Ldg. Light - full • Vy - 67-54 KIAS • Flaps - T/O • Safe Altitude • Prop - 2400 RPM • Elect. Pump - off • (ruise Climb • Post-Landing • Throttle - 1000 RPM • Mixture - lean • Flaps - up • Elect. Pump - off • Cruise Climb • Post-Landing • Throttle - J000 RPM • Mixture - lean • Flaps - up • Elect. Pump - off • Flaps - up • Elect. Pump - off • Trim - T/O • Lights - as required • Clearance - obtain • Flaps - up • Elect. Pump - off • Pitot Heat - off • Trim - T/O • Lights - as required • Clearance - obtain • Flaps - up • Elect. Pump - off • Trim - T/O • Lights - as required • Clearance - obtain • Flaps - up • Elect. Pump - off • Pitot Heat - off • Pitot Heat - off • Trim - T/O • Lights - as required • Clearance - obtain • Noutdown • Flaps - up • Elect. Pump - off • Pitot Heat - off • Pitot Heat - off • Trim - T/O • Lights - as required • Clearance - obtain • Mags key out • Tach Time - note • Master - off • Tiedowns/Chocks • Pitot Cover	► High Altitude - pump on ► Flow Check ► CHT Cool Down • <= 50°F/22.8°C pm Pre-Landing ► ATIS/Rwys & Patterns
• Short Flow • Fuel Selector - fullest • Mixture - full/check • Elect. Pump - on • Alternate Air - on • Alternate Air - on • Mags check all • Glide and Trim • Speed: 75-50 KIAS • Ratio: 8.6. 1.45nm/lkft • Wind and Landing Site • Longer Flow • Engine Inst. • Short Flow Again • Wind Restart • Airspeed >= 70 KIAS • Short Flow • Mags both • Mixture - lean and • Slowly richen • Stationary Restart • Airspeed >= 80 KIAS • Electrical - off • Avionics - off • Master - on • Mags start • No Restart • Fuel Selector - off • Master - off • Wentilation - open • Emergency Windows - open • Emergency Windows - open • Forward Canopy • partially open • Do NOT lock/unlock reardoor during flight • Zb46/2535/2205/1874 lbs • Zb46/2535/2205/1874	<ul> <li>▶ Gust Lock</li> <li>▶ Close Flight Plan</li> <li>▶ Hobbs Time - note</li> <li>▶ Check Under Seats</li> <li>▶ Canpoy/Door - lock</li> <li>▶ Post-Flight Walkaround</li> <li>Engine Failure</li> </ul>
<ul> <li>MÄM 40-227</li> <li>no - 108 @ 2161-2535</li> <li>yes - 111 @ 2284-2646</li> <li>below 2161/2284 - 94</li> <li>101 @ 2300 1bs</li> <li>Approach Speeds</li> <li>Engine Out</li> <li>Up - 76/73/68/60</li> <li>T/O - 74/72/66/59</li> <li>Normal - 73/71/63/58</li> <li>Normal - 73/71/63/58</li> </ul>	<ul> <li>Vr - 59</li> <li>Vy</li> <li>Up - 7L/73/LB/LO</li> <li>T/O - L7/LL/LD/54</li> <li>Best Glide</li> <li>7L/73/LB/LO</li> <li>7O @ 2300 lbs</li> </ul>
* Avionics - off * Fuel - both * Fuel - both * Master - on * Fuel - note * Flaps - down * Lights/Pitot - test * Avionics on/off - fans * Master - off * Hobbs Time - note * Lights/Pitot - 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 Brkrs check * Passenger - brief * Beacon - on * Avionics - off * Fuel - both * Stby. Battery - test/arm * Engine Ind no Xs * Volts - [E>24] [Mcl5] * Amps - Scl/ann on * Prime: * Master - on * Mixture - idle cutoff * Brakes - secure * Master - on * Mixture - prime * warm: 0-3 sec * cold: 3-5 sec * Aux. Pump - off * Mixture - 3/4 rich	C172S-G1000 (Ted v1.2)  Initial  Papers - A.R.O.W.  Control Lock - off  Mags: - key out  Mixture - idle cutoff  Thoottle - idle
Flaps - up Lights - as required Avionics - on/set GPS - DB date Fuel Totalizer - enter ATIS - PFD/backup/AP(?) Radio - test Transponder - squawk Check - TC/AI/HSI<->MC Clearance - obtain Brakes - set Seat Belts - check Doors/Windows - secure Flight Controls - correct Instruments - scan Alternate Static - check Doors/Windows - secure Flight Controls - correct Instruments - scan Alternate Static - check Doors/Windows - secure Flight Controls - correct Instruments - scan Alternate Static - check Doors/Windows - secure Flight Controls - check Doors/Windows - secure Flight Controls - check Doors/Windows - secure Flight Controls - check Instruments - scan Alternate Static - check Doors/Windows - secure Flight - no/both Hdg:/Alt. Bugs GPS/Status Bar/Ann. Test MTD Range/Track Up Comm/Nav/VOR/FP Mixture - rich Throttle - 1500 RPM Mags 150, 50 Engine Inst check Idle Check	<ul> <li>Prop Clear!</li> <li>Mags start</li> <li>Throttle - 1000 RPM</li> <li>Oil Pressure - 30 secs.</li> <li>Volts/Amps - [&gt;2b] [&gt;0]</li> <li>Mixture - lean for taxi</li> <li>Pre-Taxi</li> </ul>
• Mixture - lean >3000' • Flow Check (~\lambda L5 min) • Flaps: Engine Inst. • Mixture: Throttle • Master: Mag: Pump  Descent • Mixture - richen slowly • Throttle - as required • Flow Check  Pre-Landing • ATIS/Rwys & Patterns • "CCGUMPSF" • G: Fuel - on/both • M: Mixture - rich • S: Seat Belts - secure • F: Flaps - as required • Trim - as required • Light - on • Approach - &0-L5 kts  Post-Landing • Throttle - 1000 RPM • Mixture - lean • Flaps - up • Pitot Heat - off • Lights - as required • Clearance - obtain • Flaps - up • Pitot Heat - off • Lights - off • Trim - takeoff • Mags: - off then both • Mixture - idle cutoff • Mags: - off • Lights - off • ANDSB Handheld - off • Tiedowns/Chocks • Pitot Cover	■ Mixture/Throttle  ▶ Engine Inst green  ▶ Wr - 55 kts  ▶ Wx - 62 kts, Wy - 74 kts  Climb / Cruise  ▶ Cruise Climb - 75-85 kts