```
DA40-Gl000 (Ted Yin v0.6)
                              · Throttle - 0.4"
                                                         ▶ Fuel Selector - fullest
                             ▶ "Prop Clear!"
                                                          ▶ Flaps - T/0
          Initial
                             ▶ Mags. - start
                                                         ▶ Mixture - rich
▶ Papers - A.R.O.W.
► Controls - free & correct ► Throttle - 1000 RPM
                                                         ▶ Prop - high RPM
                             ▶ 0il Pressure - 15 secs.
                                                          ▶ Electric Pump - on
▶ Mags. - key out
                             ▶ Electric Pump - off
                                                          ▶ Pitot Heat - as required
▶ Mixture - idle cutoff
                                                          ► Review Airspeeds
                             ▶ Master Alt. - on
▶ Throttle - idle
                             ▶ Engine Inst. - no Xs
                                                          ▶ Time - note/start
▶ Electrical - off
                             ▶ Volts/Amps - [25-30] [>0]
                                                                    Takeoff
▶ Essential Bus - off
                             ▶ Fuel Pressure - 14-35 psi
▶ Avionics - off
                                                         ▶ "Lights: Camera: Action"
                             ▶ Mixture - lean (peak)
▶ Master - on
                                                           • Mixture/Prop/Throttle
                                    Pre-Taxi
▶ Fuel Pump - check
                                                         ▶ Engine Inst. - green
▶ Fuel - note
                                                         ▶ Vr - 59; then 67-60 KIAS
                             ▶ Flaps - up₁ then T/0
▶ Flaps - check & set T/0
                             ▶ Lights - as required
                                                          ► Safe Altitude
▶ Lights/Pitot - test
                             ▶ Avionics - on/set

    Prop - 2400 RPM

▶ Master - off
                             ► GPS - DB date
                                                           • Elect. Pump - off
► Hobbs Time - note
                             ▶ Fuel Totalizer - enter
                                                           • Ldg. Light - off
                             ► ATIS - PFD/backup/AP(?)
         Walkaround
                                                                     Climb
                             ▶ Radio - test
► Canopy/Door - check
                                                         ▶ Vy (T/0)
                             ▶ Transponder - squawk
▶ Fuel/0il - test/sample

    67-54 KIAS

                             ► Check - TC/AI/HSI<->MC
▶ Caps/Drains/Vents
                                                           • LB minus 1.8 for each
                             ► Clearance - obtain
▶ Surfaces/Controls
                                                             100 lbs under 2646
                             ▶ Brakes - release/test
▶ Stall Strips/Fairings
                                                          ▶ Cruise
► Exhaust/Antennas
                                       Run-Up
                                                           • Flaps - up
▶ Prop/Air Intakes x3
                             ▶ Parking Brake - set

    Vy: 7b-b0 KIAS

▶ Pitot/Static/Stall
                             ▶ Seat Belts - check
                                                         ▶ Prop - 2400 RPM
▶ Gear/Tires/Brakes
                             ► Canopy/Door - lock
                                                          ▶ Mixture - rich
▶ Ties/Chocks
                             ▶ Door Warning - off
                                                           • >5000 hold const. EGT
▶ Final Walkaround
                             ▶ Flight Controls - correct
                                                          ▶ Throttle - full
     Pre-Start
                             ▶ Instruments - scan
                                                          ▶ Engine Inst. - green
▶ Rear Door - secure
                             ► Alternate Static - check
                                                          ▶ Trim - as required
▶ Rudder Pedals - adjust
                             ► AP - MET/HDG
                                                         ▶ High Altitude - pump on
▶ Seat Belts
                             ► Trim - T/0
                                                                     Cruise
▶ Parking/Brakes - test/set
                             ▶ Fuel Selector - fullest
                                                          Flaps - up
▶ Circuit Brkrs. - check
                             ► Hdg./Alt. Bugs
                                                         ► Throttle - 21-24"
▶ Passenger - brief
                             ▶ GPS/Status Bar/Ann. Test
                                                          ▶ Prop - 1800-2400 RPM
▶ Strobe (ACL) - on
                             ▶ MFD Range/Track Up
                                                         ▶ Mixture
▶ Avionics - off
                             ► Comm/Nav/VOR/FP
▶ Fuel Selector - least
                                                           • Higher Power - richen
                             ▶ Mixture - rich
► Canopy - pos. 1/2
                             ▶ Throttle - 2000 RPM
                                                           ■ Economy: max EGT & <=75%
                                                            · Power: 100°F/55°C lower
           Start
                             ► Cycle Prop x3 - 250-500
                             ► Mags. L/R - 175, 50.
                                                          ▶ Flow Check (♠15 min)
▶ Prime
                             ▶ Alternate Air - check
                                                           ■ Trima Fuel
 • Mixture - idle cutoff
                             ▶ Engine Inst. - check
                                                           • Mixture, Prop, Throttle
 • Prop - high RPM
                             ▶ Idle Check
                                                           • Flaps, Engine Inst.

    Friction - adjust

                             ► Throttle - 1000 RPM
                                                           • Pump, Mag, Master
 • Master Bat. - on
                             ▶ Mixture - lean
                                                         ► CHT: 150-400°F
 • Throttle - 1.2"
                             ▶ Lights - as required
                                                          ▶ 0il: 165-220°F
 • Electric Pump - on
                             ► ADSB Handheld - on
                                                                  Descent
 Warm
                                     Pre-Takeoff
  · Mixture - 1-3 sec
                                                         ▶ Mixture - richen slowly
 Cold
                             ▶ Abort Plan/Lost Comm.
                                                         ▶ Prop - 1800-2400 RPM
 · Mixture - 3-5 sec
                             ► Canopy/Door - lock
                                                         ▶ Throttle - as required
```

- ► High Altitude pump on
- ▶ Flow Check
- ► CHT Cool Down • <= 50°F/22.8°C pm

# Pre-Landing

- ► ATIS/Rwys & Patterns
- ▶ "CCGUMPSF"
- G: Fuel Selector
  - · downwind/fullest
  - M: Mixture rich
- P: Elect. Pump on
- P: Prop high RPM • S: Seat Belts - secure
- F: Flaps as required
- T/O <108 KIAS
- LDG <91 KIAS</li>
- ▶ Trim as required ▶ Ldg. Light - on
- ► Approach 73-58 KIAS

## Go Around

- ▶ Throttle full
- ► Vy 67-54 KIAS
- ▶ Flaps T/0 ▶ Safe Altitude
- Prop 2400 RPM
- Elect. Pump off
- Cruise Climb
- Post-Landing
- ▶ Throttle 1000 RPM ▶ Mixture - lean
- ▶ Flaps up
- ▶ Elect. Pump off
- ▶ Pitot Heat off
- ▶ Trim T/0
- ▶ Lights as required
- ▶ Clearance obtain
  - Shutdown
- ▶ ELT check (121.5)
- ▶ Avionics off
- ▶ Electrical off
- ACL Strobes on
- ▶ Throttle 1000 RPM
- ▶ Mags. off then both
- ▶ Mixture idle cutoff ▶ Mags. - key out
- ▶ Tach Time note ▶ Master - off

## Post-Flight

- ► ADSB Handheld off ▶ Tiedowns/Chocks
- ▶ Pitot Cover

- ▶ Gust Lock
- ► Close Flight Plan
- ▶ Hobbs Time note
- ▶ Check Under Seats
- ► Canpoy/Door lock
- ▶ Post-Flight Walkaround
  - Engine Failure
- ▶ Short Flow
- Fuel Selector fullest
  - Mixture full/check
- Elect. Pump on
- Alternate Air on
- Mags. check all ▶ Glide and Trim
- Speed: 7L-LO KIAS • Ratio: 8.8, 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
- Mixture idle cutoff Mags. - off
- Master off
- Belt and Seat check
- Unlatch Door Brace
  - CO Contamination
- ▶ Cabin Heat off
- ▶ Ventilation open
- ▶ Emergency Windows open
- ▶ Forward Canopy • partially open
  - DO NOT lock/unlock rear door during flight
  - Airspeeds (KIAS)
- Weights
- 2646/2535/2205/1874 lbs

- ▶ Vr 59
- Vy • Up - 76/73/68/60
- T/O 67/66/60/54 ▶ Best Glide
- 76/73/68/60
- 70 @ 2300 lbs
- Va
  - MÄM 40-227 ·no - 108 @ 2161-2535
  - · yes 111 @ 2284-2646
  - below 2161/2284 94
- 101 @ 2300 lbs ► Approach Speeds
  - Engine Out
  - · Up 76/73/68/60
  - · T/O 74/72/66/59
  - · LDG 73/71/63/58 Normal - 73/71/63/58

#### C172S-G1000 (Ted v1.2) ▶ "Prop Clear!" • Mixture/Throttle ► Mags. - start ▶ Engine Inst. - green Initial ▶ Throttle - 1000 RPM ▶ Vr - 55 kts ▶ Papers - A.R.O.W. ▶ 0il Pressure - 30 secs. Vx - 62 kts₁ Vy - 74 kts ▶ Control Lock - off ▶ Volts/Amps - [>26] [>0] Climb / Cruise ▶ Mags. - key out ▶ Mixture - lean for taxi ▶ Mixture - idle cutoff ▶ Cruise Climb - 75-85 kts Pre-Taxi ▶ Throttle - idle • Flaps - up ▶ Avionics - off ▶ Flaps - up ► Mixture - lean >3000 ▶ Lights - as required ▶ Fuel Shutoff - on ▶ Flow Check (♠15 min) ▶ Avionics - on/set ▶ Fuel - both • Fuel₁ Trim ► GPS - DB date ▶ Master - on Flaps Tingine Inst. ▶ Fuel - note ▶ Fuel Totalizer - enter • Mixture, Throttle ▶ Flaps - down ► ATIS - PFD/backup/AP(?) • Master, Mag, Pump ▶ Lights/Pitot - test ▶ Radio - test Descent ▶ Avionics on/off - fans ▶ Transponder - squawk ▶ Mixture - richen slowly ▶ Master - off ► Check - TC/AI/HSI<->MC ▶ Throttle - as required ► Hobbs Time - note ► Clearance - obtain ▶ Flow Check ▶ Brakes - test Walkaround Pre-Landing Run-Up ► Fuel/0il - dip/sample ► ATIS/Rwys & Patterns ▶ Caps/Drains/Vents ▶ Brakes - set ▶ "CCGUMPSF" ▶ Surfaces/Controls ▶ Seat Belts - check • G: Fuel - on/both ▶ Exhaust/Antennas ▶ Doors/Windows - secure • M: Mixture - rich ▶ Prop/Belt/Air Intake ▶ Flight Controls - correct • S: Seat Belts - secure ▶ Pitot/Static/Stall ▶ Instruments - scan • F: Flaps - as required ▶ Gear/Tires/Brakes ► Alternate Static - check ▶ Trim - as required ▶ Ties/Baggage Door ▶ AP - MET/HDG ▶ Ldg. Light - on ► Final Walkaround ▶ Trim - takeoff ▶ Approach - 80-65 kts Pre-Start ▶ Fuel - on/both Post-Landing ► Hdg./Alt. Bugs ▶ Doors - secure ▶ Throttle - 1000 RPM ► GPS/Status Bar/Ann. Test ▶ Belts/Seat Track ▶ Mixture - lean ▶ MFD Range/Track Up ▶ Brakes - check, set ▶ Flaps - up ▶ Comm/Nav/VOR/FP ► Circuit Brkrs. - check ▶ Pitot Heat - off ▶ Mixture - rich ▶ Passenger - brief ▶ Trim - takeoff ▶ Throttle - 1800 RPM ▶ Beacon - on ► Mags. - 150, 50 ▶ Lights - as required ► Avionics - off ▶ Clearance - obtain ▶ Engine Inst. - check ▶ Fuel - both ▶ Idle Check Shutdown Start ▶ Throttle - 1000 RPM ▶ ELT - check (121.5) ▶ Stby. Battery - test/arm ▶ Mixture - lean ► Avionics - off ▶ Engine Ind. - no Xs ▶ Lights - as required ▶ Lights - off ▶ Volts - [E>24] [M<1.5] ► ADSB Handheld - on Beacon - on ► Amps - S<0/ann on Pre-Takeoff ► Throttle - 1000 RPM ▶ Prime: ▶ Abort Plan/Lost Comm. ▶ Mags. - off then both • Mixture - idle cutoff Fuel - on/both ▶ Mixture - idle cutoff • Brakes - secure ▶ Flaps - U-10° ► Mags. - key out • Master - on ▶ Mixture - rich ▶ Master - off • Throttle - slight ► Aux. Pump - off ▶ Tach Time - note ■ Aux Pump - on ▶ Pitot heat - as required ▶ Stby. Battery - off • Mixture - prime

▶ "Lights: Camera: Action"

Takeoff

▶ Review Airspeeds

▶ Time - note/start

·warm: D-3 sec

· cold: 3-5 sec

Aux. Pump - off

▶ Mixture - 3/4 rich

► ADSB Handheld - off ▶ Tiedowns/Chocks

Post-Flight

▶ Pitot Cover

- ▶ Fuel switch to L/R
- ▶ Gust Lock
- ► Close Flight Plan
- ▶ Hobbs Time note
- ▶ Check Under Seats
- ► Cabin / Baggage lock
- ▶ Post-Flight Walkaround
- F i Gat Finght Walkar care

### Engine Failure

- ▶ Short Flow
- Fuel on/both
- Mixture full/checkElectrical Pump on
- Alternate Air on
- Mags. check all
- ▶ Glide and Trim
- Speed: LA 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