C172S-G1000 (Ted v1.2)

Initial

- ► Papers ·············· A.R.O.W.
- ► Control Lock ················ off
- ► Mags. ················· key out
- ► Mixture ·········· idle cutoff
- ► Throttle ···················· idle
- ► Avionics ···················· off
- ► 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 Brkrs. ·········· 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 ················· S<0/ann on
- ► Prime:
 - • 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 ············· 1,000 RPM
- ◊ Oil Pressure ········ 30 secs.
- ◊ Volts/Amps ······· [[>26] [>0]
- ► 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 ······················ test
- ► Transponder ············· squawk
- ► Check ······ TC/AI/HSI<->MC
- ► Clearance ················ obtain
- ► 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 ············· 1,800 RPM
- ► Mags. ················· 150, 50
- ► Engine Inst. ·············· check
- ► Idle Check
- ► Throttle ············· 1,000 RPM
- ► Mixture ······················ lean
- ► Lights ············ as required
- ► ADSB Handheld ················ on

Pre-Takeoff

- ► Abort Plan/Lost Comm.
- ► Fuel ····················· on/both
- ► Flaps ···················· 0-10°
- ► Mixture ······················ rich
- ► Aux. Pump ···················· off
- ► Pitot heat ······· as required
- ► Review Airspeeds
- ► Time ··········· note/start

Takeoff

- ► "Lights, Camera, Action"
 - • Mixture/Throttle
- ► Engine Inst. ·············· green
- ► Vr ···················· 55 kts
- ► Vx ···· 62 kts, Vy ···· 74 kts

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
- ► "CCGUMPSF"
 - • G: Fuel ············· on/both
 - • M: Mixture ················ rich
 - • S: Seat Belts ······· secure
 - • F: Flaps ········ as required
- ► Trim ············ as required
- ► Ldg. Light ···················· on
- ► Approach ·········· 80-65 kts

Post-Landing

- ► Throttle ············· 1,000 RPM
- ► Mixture ······················ lean
- ► Flaps ························ up
- ► Pitot Heat ·················· off
- ► Trim ···················· takeoff
- ► Lights ·········· as required
- ► Clearance ················ obtain

Shutdown

- ► ELT ·············· check (121.5)
- ► Avionics ···················· off
- ► Lights ······················ off
 - • Beacon ······················ on
- ► Throttle ············· 1,000 RPM
- ► Mags. ·········· off then both
- ► Mixture ·········· idle cutoff
- ► Mags. ················· key out
- ► Master ······················ off
- ► Tach Time ················· note
- ► Stby. Battery ·············· off

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