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