

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 Brkr. .... 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 ..... 1000 RPM  
► Oil Pressure ..... 30 secs.  
► Volts/Amps ..... [I>26] [I>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 ..... 1800 RPM  
► Mags. .... 150, 50  
► Engine Inst. .... check  
► Idle Check  
► Throttle ..... 1000 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 ..... 1000 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 ..... 1000 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