

Timo's Cessna 172S G1000 Checklist

Version v8 from 2024-06-23

PREFLIGHT

Documents (A, R, OHB, W&B)	PRESENT
Control Wheel Lock	REMOVE
MASTER Switch (ALT & BAT)	ON
AVIONICS Switch (check fans for BUS 1 and BUS 2 audible)	ON & OFF
Flaps	FULL
All Lights	ON
PITOT HEAT Switch	ON
Walk-around check all lights and pitot heat	
PITOT HEAT Switch	OFF
All Lights (but BEACON)	OFF
MASTER Switch (ALT & BAT)	OFF
Fuel quantity	CHECK
Walk-around	
Incl. fuel sample, static port, engine oil >6 inch	

BEFORE ENGINE START

FUEL SELECTOR Valve	BOTH
FUEL SHUTOFF Valve	ON
STBY BATT Switch (10s test, then)	ARM
Annunciator (3x) OIL PRESSURE, STBY BATT, (LOW VACUUM)	ON
BUS E Volts (verify $\geq 24V$)	CHECK
BUS M Volts (verify $\leq 1.5V$)	CHECK
BATT S Amps (verify discharge)	CHECK
MASTER Switch (ALT & BAT)	ON

ENGINE START

(if engine is cold, prime)

Throttle Control	OPEN 50%
FUEL PUMP Switch	ON
Mixture Control (until fuel flow is stable; about 3-5s)	FULL RICH & IDLE CUTOFF
FUEL PUMP Switch	OFF
<i>(start-up the engine)</i>	
Propeller Area	CLEAR
Throttle Control	OPEN ¼ INCH
MAGNETOS Switch	START
Mixture Control	ADVANCE TO RICH

(engine starts)

Throttle Control	900 RPM
Mixture Control	LEAN 1 INCH
TAXI Light	ON
AVIONICS Switch	ON
Radio ATIS	NOTE DOWN
Matt's Flow	CHECK
Flaps	UP
Heading Bug	SET
Oil Pressure	CHECK
Squawk	SET
AMPS (M BATT & BATT S >0)	CHECK
Radio Ground	CALL
Brakes (both sides) <i>(start taxiing)</i>	CHECK

DURING TAXI

(check one item at a time, look outside)

1. Airspeed Indicator	ZERO
2. Altitude	CHECK
3. Heading Ind. and Compass	MATCH
4. Attitude Indicator	CHECK
5. Slip / Skid Indicator	CHECK

BEFORE TAKEOFF

- AP (Autopilot) **CHECK**
(1) HDG mode (2) nose up/down
(3) manual override (4) FD off
"Autopilot check"
- Flight Controls **CHECK**
(1) yoke (2) trim tab (3) rudder
"Flight controls free and correct"
- Engine **CHECK**
(1) mixture full rich (2) ~1800 rpm
(3) magneto check (max drop 175 rpm,
50 rpm diff) (4) fuel flow, oil pressure &
temp green (5) idle (6) 1000 rpm
(7) battery charging and 28V
"Engine run-up check"
- Matt's Flow **CHECK**
Mixture Control **LEAN 1 INCH**
Lights (at daytime) **ALL ON**
GPS 1 & 2 **CHECK**
- Give departure briefing

TAKEOFF

Mixture Control **FULL RICH**
Throttle Control **FULL**

(during the takeoff roll, one at a time)

- Engine RPM (~2,400) **CHECK**
- Engine Gauges **GREEN**
- Airspeed **COMES ON**
"Airspeed alive"

CLIMB

Flaps **UP**
Throttle Control **FULL**
Airspeed **85**
Mixture Control (above 3k feet) **LEAN**

CRUISE

(Matt's Flow)
Throttle Control **2400 RPM**
Mixture Control (above 3k feet) **LEAN**
Instruments **MONITOR**

DESCENT

Throttle Control **1800 RPM**
Vertical Speed **500 FPM**
Mixture Control **FULL RICH**
FUEL SELECTOR Valve **BOTH**

AFTER LANDING

(Matt's Flow)
Flaps **UP**
Mixture Control **LEAN 1 INCH**
All Lights (but BEACON & TAXI) **OFF**
Squawk **1200**

ENGINE OFF & SECURING

Throttle Control **OFF**
AVIONICS Switch **OFF**
Lights (except BEACON) **OFF**
Mixture Control **IDLE CUTOFF**
Plane Key **OUT**
MASTER Switch (ALT & BAT) **OFF**
FUEL SELECTOR Valve **LEFT**
Note down tach & engine hours
STBY BATT **OFF**
Control Wheel Lock **INSERT**
Doors **LOCK**
Park and attach tie downs

MATT'S FLOW

1. FUEL SELECTOR Valve **BOTH**

2. FUEL SHUTOFF Valve **ON**

3. Trim **AS DESIRED**

4. Flaps **AS DESIRED**

5. Mixture Control **AS DESIRED**

6. Throttle Control **AS DESIRED**

7. Standby Instruments **CHECK**

8. Circuit Breakers **OFF**

9. Lights **AS DESIRED**

10. Primary Flight Display **CHECK**
 (1) squawk (2) heading select
 (3) barometer (4) altitude select
 (5) radio frequencies

11. Multi-Function Display **CHECK**
 (1) engine (2) map (3) traffic