

# Cessna 172S-G1000 Checklist



## PREFLIGHT INSPECTION

### INTERIOR

- Pitot Tube Cover.....REMOVE
- POH.....ACCESSIBLE
- AIRWORTHINESS/REG.....CHECKED
- G1000 Reference Guide.....ACCESSIBLE
- Weight and Balance.....CHECKED
- Parking Brake.....SET
- Control Wheel Lock.....REMOVE
- MAGNETOS.....OFF
- AVIONICS Switch (BOTH).....OFF
- MASTER Switch (ALT and BAT).....ON
- Check Lights.....OPERABLE
- PFD.....VERIFY PFD ON
- FUEL QTY (L & R).....CHECK
- OIL PRESSURE Annunciator.....SHOWN
- LOW VACUUM Annunciator.....SHOWN
- AVIONICS Switch (BUS 1).....ON
- Forward Avionics Fan.....Audible
- AVIONICS Switch (BUS 1).....OFF
- AVIONICS Switch (BUS 2).....ON
- Aft Avionics Fan.....Audible
- MFD Fuel Computer Level.....ADJUST
- AVIONICS Switch (Bus 2).....OFF
- PITOT HEAT Switch.....ON

- (check tube is warm within 30 seconds)
- PITOT HEAT Switch.....OFF
- LOW VOLTS Annunciator.....SHOWN
- FLAPS.....DOWN
- MASTER Switch (ALT&BAT).....OFF
- ELEVATOR TRIM.....TAKEOFF
- FUEL SELECTOR VALVE.....BOTH
- ALT STATIC AIR VALVE... OFF (Push full in)
- Fire Extinguisher.....VERIFY in green arc

### EXTERIOR

- Baggage Door.....CHECK
- Fuselage.....CHECK
- Tail Tiedown.....DISCONNECT
- Control Surfaces.....FREE AND SECURE
- Elevator Trim Tab.....CHECK
- Antennas.....CHECK
- R WING FLAP.....CHECK
- R WING AILERON.....CHECK
- R Wing Tiedown.....DISCONNECT
- R Main Wheel Tire.....CHECK
- R WING Fuel Tank Sumps.....DRAIN (5)
- R WING FUEL Quantity.....CHECK Visually
- NOSE.....Fuel Strainer (3)
- ENGINE OIL/DIPSTICK.....CHECK
- 5 quarts min, 6 preferred (keep <7)**
- Engine Cooling Air Inlets.....CHECK

- Propeller and Spinner.....CHECK  
(Nicks and security)
- Air Filter.....CHECK Free of obstructions
- Nosewheel Strut and Tire.....CHECK
- Static Source Opening.....CHECK Clear
- Stall Warning.....CHECK
- Ldg/Taxi Lights.....CHECK condition
- L Wing Tiedown.....DISCONNECT
- L Wing Fuel Quantity.....CHECK
- L Wing Fuel Sump.....DRAIN (5)
- L Main Wheel Tire.....CHECK
- L Wing Aileron.....CHECK
- L Wing Flap.....CHECK

## BEFORE STARTING ENGINE

- Preflight.....COMPLETE
- Passenger Briefing.....COMPLETE
- Seats and Seatbelts.....ADJUST and LOCK
- Brakes.....TEST & HOLD
- Circuit Breakers.....CHECK IN
- Electrical Equipment.....OFF
- Avionics (BUS 1 & BUS 2).....OFF
- STBY BATT.....TEST 20 SECONDS
- STBY BATT.....ARM
- FUEL SELECTOR VALVE.....BOTH
- FUEL SHUTOFF VALVE.....FULL IN

## STARTING ENGINE

- Throttle.....OPEN ¼ INCH
- Mixture.....IDLE CUTOFF
- PFD.....CHECK ON
- Engine Indicating Systems.....NO RED X's
- BUS E Volts.....24 volts minimum
- BUS M Volts.....1.5 Volts or less
- BATT S Amps.....Negative discharge
- STBY BATT Annunciator.....Shown
- PROP AREA.....CLEAR
- MASTER Switch (ALT & BAT).....ON
- ANTI COLLISION Lights.....ON
- PRIME:**
- FUEL PUMP Switch.....ON
- MIXTURE.....RICH
- COLD**(Rich 3-5 seconds until fuel flow stabilizes)
- HOT**(Rich 1-3 seconds and Throttle ½" open)
- MIXTURE.....IDLE CUT-OFF
- FUEL PUMP.....OFF
- MAGNETOS Switch.....START
- MIXTURE.....SMOOTHLY to rich
- FLAPS.....UP
- Oil Pressure.....CHECK in green
- AMPS.....CHECK Positive charge
- LOW VOLTS Annunciator.....Not shown
- Lights.....AS REQUIRED

- AVIONICS Switch (BUS 1 & 2).....ON
- MIXTURE.....LEAN FOR TAXI

## BEFORE TAXI

- Brakes.....CHECK
- GPS.....VERIFY DATABASE
- Transponder.....1200
- Radios.....TUNE/ATIS
- Instruments.....CHECK
- Flight Plan.....ENTER/ACTIVATE
- Hotspots/Taxi Route.....BRIEF

## BEFORE TAKEOFF

- Seat Backs.....UPRIGHT
- Seats and Seat Belts.....SECURE
- Cabin Doors.....Closed and Locked
- Flight Controls.....FREE and CORRECT
- Flight Instruments.....NO RED X's
- PFD (BARO).....SET
- STANDBY ALTIMETER.....SET
- ALT SELECT.....SET
- STBY FLIGHT INSTRUMENTS.....CHECK
- FUEL.....STATE QUANTITY
- MIXTURE.....RICH
- FUEL SELECTOR VALVE.....BOTH
- AUTOPILOT.....ENGAGE/CHECK
- FLIGHT CONTROLS.....CHECK  
(Verify A/P overpowered in pitch & roll axes)
- AUTOPILOT TRIM DISCONNECT  
(Verify A/P disengages and alert is heard)
- FLIGHT DIRECTOR.....OFF
- ELEVATOR TRIM.....TAKEOFF
- THROTTLE.....1800 RPM
- MAGNETOS Switch.....CHECK(150/50)
- VAC Indicator.....CHECK
- ENGINE Indicators.....CHECK
- AMPS and VOLTS.....CHECK
- ANNUNCIATORS.....CHECK(verify none)
- THROTTLE.....CHECK IDLE
- THROTTLE.....1000 RPM or LESS
- THROTTLE FRICTION.....ADJUST
- COM Frequencies.....SET
- NAV Frequencies.....SET
- FMS/GPS Flight Plan.....SET
- XPDR.....SET
- CDI Softkey.....SELECT NAV SOURCE
- CABIN PWR 12V SWITCH.....OFF
- FLAPS.....0°OR 10°
- CABIN WINDOWS.....CLOSED/LOCKED
- LIGHTS.....AS REQUIRED

## Departure and Emergency Brief

- Departure Plan/Known Hazards/Obstacles
- On takeoff Roll
- After lift off, Below 1,000ft AGL
- Above 1,000ft AGL and/or turned Crosswind
- Review Takeoff Checklist

## TAKEOFF & CLIMB

- THROTTLES.....FULL
- MIXTURE.....RICH
- ROTATE.....55 KIAS
- CLIMB AIRSPEED.....70-80 KIAS
- FLAPS.....RETRACT(at safe altitude)

## CRUISE

- POWER.....2100-2500 RPM  
(No more than 75% power)
- TRIM.....ADJUST
- MIXTURE.....LEAN (Above 3000')
- FUEL.....STATE QUANTITY
- FMS/GPS.....REVIEW and BRIEF

## PRE-MANEUVER

- Lights.....ON
- Mixture.....SET
- Fuel Selector.....BOTH
- FUEL.....STATE QUANTITY
- ESP and AC.....OFF
- Area.....CLEAR

## DESCENT

- Power.....AS NEEDED
- Mixture.....ADJUST
- Fuel Selector.....BOTH
- BARO.....SET
- FMS/GPS.....SET AND BRIEF
- FLAPS/AIRSPEED.....CONFIGURE

## BEFORE LANDING

- SEATS/SEATBELTS.....SECURE/LOCKED
- FUEL SELECTOR.....BOTH
- MIXTURE.....RICH
- LDG LIGHT.....ON
- AUTOPILOT.....OFF (200 AGL)
- CABIN PWR 12V Switch.....OFF
- Air Conditioning.....OFF

## AFTER LANDING

- FLAPS.....UP
- RADIOS.....SET (As Required)
- LIGHTS.....AS REQUIRED
- MIXTURE.....LEAN

## SECURING AIRPLANE

XPNDR .....VFR  
THROTTLE CONTROL .....IDLE  
ELECTRICAL EQUIPMENT .....OFF  
BEACON LIGHT .....ON  
AVIONICS Switch (BUS 1 & 2) .....OFF  
MIXTURE .....IDLE CUTOFF  
MAGNETOS Switch .....OFF  
ENGINE TIMES .....RECORD  
MASTER Switch (ALT and BAT) .....OFF  
STBY BATT Switch .....OFF  
Control Lock .....INSTALL  
FUEL SELECTOR Valve...LEFT OR RIGHT

## EMERGENCY PROCEDURES

\*Items in bold are to be committed to memory\*

## ENGINE FAILURE DURING TAKEOFF ROLL

**Throttle**.....**IDLE**  
**Brakes**.....**APPLY**  
Flaps.....RETRACT  
Mixture.....IDLE CUTOFF  
Magnetos Switch.....OFF  
STBY BATT Switch.....OFF  
MASTER Switch (BOTH).....OFF

## ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

**Airspeed**.....**70 KIAS Flaps UP**  
**65 KIAS Flaps 10-FULL**  
Mixture .....IDLE CUTOFF  
Magnetos Switch .....OFF  
Flaps..AS REQUIRED (Full Recommended)  
STBY BATT Switch .....OFF  
MASTER Switch (ALT and BAT).....OFF  
Cabin Door.....UNLATCH  
Land .....STRAIGHT AHEAD

Vr – 55 KIAS Va - 105 KIAS  
Vx - 62 KIAS Vno - 129 KIAS  
Vy - 74 KIAS Vne - 163 KIAS  
Vso - 40 KIAS Vs1 - 48 KIAS  
Vglide - 68 KIAS

## ENGINE FAILURE DURING FLIGHT

**Airspeed**.....**68 KIAS (best glide)**  
**FUEL SHUTOFF Valve**.....**ON (push in)**  
**FUEL SELECTOR VALVE** .....**BOTH**  
**FUEL PUMP Switch** .....**ON**  
**MIXTURE**.....**RICH**  
MAGNETOS Switch.....BOTH (or start)  
FUEL PUMP Switch.....OFF

**If altitude permits, declare emergency on 121.5, activate ELT, squawk 7700.**

**Emergency landing without power checklist**.....**COMPLETE**

## EMERGENCY LANDING WITHOUT POWER

Pilot and Passenger Seats .....UPRIGHT  
Seats and Seatbelts .....SECURE  
Airspeed .....70 KIAS Flaps UP  
65 KIAS Flaps 10-FULL  
Mixture .....IDLE CUTOFF  
FUEL SHUTOFF VALVE .....OFF  
MAGNETOS SWITCH .....OFF  
FLAPS..AS REQUIRED (Full Recommended)  
STBY BATT Switch .....OFF  
MASTER Switch (ALT and BAT).....OFF  
DOORS.....UNLATCH  
TOUCHDOWN.....SLIGHTLY TAIL LOW  
BRAKES.....APPLY HEAVILY

## EXCESSIVE RATE OF CHARGE

**\*If greater than 40A Charge, 5A in cruise or HIGH VOLT ANNUNCIATOR\***  
MASTER SWITCH (ALT ONLY) .....OFF  
ELECTRICAL EQUIPMENT .....SHED (As required)  
LAND .....As soon as practicable

## INSUFFICIENT RATE OF CHARGE

MASTER SWITCH (ALT ONLY) .....OFF  
ATL FIELD CIRCUIT BREAKER..... IN  
MASTER SWITCH (ALT ONLY).....ON  
ELECTRICAL EQUIPMENT .....SHED (As required)  
LAND .....As soon as practicable

## LOST COMMUNICATIONS

RADIO .....Verify Frequency  
Volume/Squelch .....Adjust  
Push To Talk.....Verify Transmitting  
COMMS..... Switch radios/Frequency  
**\*If 2-way communications not re-established\***  
Squawk .....7600  
Land .....As soon as practicable  
(Recall Light Gun Signals)

## ENGINE FIRE IN FLIGHT

**Mixture** .....**IDLE CUTOFF**  
**FUEL SHUTOFF VALVE** .....**OFF**  
**FUEL PUMP Switch** .....**OFF**  
**MASTER Switch (ALT and BAT)** .....**OFF**  
CABIN VENTS.....OPEN (as needed)  
CABIN HT and CABIN AIR knobs .....OFF  
Airspeed .....100 KIAS  
**\*\*IF FIRE IS NOT EXTINGUISHED, INCREASE AIRSPEED WITHIN LIMITS THAT WILL PROVIDE INCOMBUSTIBLE MIXTURE\*\***  
FORCED LANDING .....EXECUTE

## ELECTRICAL FIRE IN FLIGHT

STBY BATT Switch .....OFF  
MASTER Switch (ALT and BAT) .....OFF  
CABIN VENTS.....CLOSED  
CABIN HT AND AIR KNOBS.....OFF  
FIRE EXTINGUISHER .....ACTIVATE  
AVIONICS Switch (BUS 1 & 2) .....OFF  
ALL OTHER SWITCHES OFF .....OFF  
**(EXCEPT MAGNETOS)**

**\*AFTER FIRE IS EXTINGUISHED\***  
CABIN VENTS .....OPEN  
CABIN HT AND AIR KNOBS .....ON  
**\*IF POWER IS NECESSARY FOR CONTINUED FLIGHT\***  
Circuit Breakers.....CHECK  
(do not reset open)  
MASTER Switch (ALT and BAT).....ON  
STBY BATT Switch .....ARM  
AVIONICS Switch (BUS 1) .....ON  
AVIONICS Switch (BUS 2) .....ON

## WING FIRE

LAND and TAXI Light Switches .....OFF  
NAV Light Switch.....OFF  
STROBE Light Switch .....OFF  
PITOT HEAT Switch .....OFF  
**Perform Sideslip to keep flames away from fuel tank and cabin**



**THRUST FLIGHT**  
Elevate Your Experience

4700 Airport Parkway  
Addison, Texas 75001  
972.735.9099

**After Hours Manager**  
**972.735.9099 ext. 107**

## KADS

ATIS (972-628-2439)	133.40
Ground	121.60
Tower (972-628-2420)	126.00
Approach (972-615-2500)	124.3/124.25
Atlantic (Fuel - 972-713-7000)	122.85