

# 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 and SET
- Circuit Breakers.....CHECK IN
- Electrical Equipment.....OFF
- Avionics (BUS 1 & BUS 2).....OFF
- FUEL SELECTOR VALVE.....BOTH
- FUEL SHUTOFF VALVE.....FULL IN

### STARTING ENGINE

- Throttle.....OPEN ¼ INCH
- Mixture.....IDLE CUTOFF
- STBY BATT.....TEST 20 SECONDS
- STBY BATT.....ARM (CHECK PFD 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

### 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 & Emergency Takeoff Briefing:

- 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
- 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
- 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  
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

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 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

## 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



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