

Cessna 172S-G1000 Checklist**PREFLIGHT INSPECTION****INTERIOR**

Airworthiness Acceptance.....VERIFY
 Control Wheel Lock.....REMOVE
 Magnetos.....OFF
 Avionics Switch (BOTH).....OFF
 Master Switch (ALT and BAT).....ON
 Pitot Heat.....ON / CHECK
 Exterior Lights.....OPERABLE
 Pitot Heat.....OFF
 Exterior Lights.....OFF
 PFD.....VERIFY PFD ON
 Fuel QTY (L & R).....CHECK
 Oil Pressure Annunciator.....SHOWN
 Low VAC Annunciator (if equipped).....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
 LOW VOLTS Annunciator.....SHOWN
 Flaps.....DOWN
 Master Switch (ALT&BAT)..... OFF
 Elevator Trim.....TAKEOFF
 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
 Pitot Tube.....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 10 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
 Master Switch (ALT & BAT).....ON
 Beacon Light.....ON
 Nav Light (Night Only).....ON
 Prop Area.....CLEAR

PRIME (read first and then execute):

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
 Magneto Switch.....START
 Mixture.....SMOOTHLY to rich
 Oil Pressure.....Check in green
 AMPS.....Check positive charge
 LOW VOLTS Annunciator.....Not shown
 Avionics Switch (BUS 1 & 2).....ON
 Flaps.....UP

BEFORE TAXI

Brakes.....CHECK
 GPS.....Verify Database
 Map Orientation.....SET
 Transponder.....1200
 Radios.....Tune/ATIS
 Instruments.....SET / CHECK
 STBY Flight Instruments.....SET / CHECK
 Flight Plan.....ENTER / ACTIVATE
 Hotspots/Taxi Route.....BRIEF
 Taxi/Recoq Light.....ON
 Strobes (Day Only).....ON
 Taxi.....700-1000 RPMs

RUNUP

COM Frequencies.....SET
 Seats and Seat Belts.....UPRIGHT/SECURE
 Flight Controls.....Free and Correct
 Flight Instruments.....No Red X's
 NAV Frequencies.....SET
 FMS/GPS Flight Plan.....SET
 XPDR.....SET
 CDI Softkey.....Select NAV Source
 Fuel.....STATE QUANTITY
 Mixture.....RICH
 Throttle.....1800 RPM
 Magnetos Switch.....CHECK (150/50)
 Engine Indicators.....CHECK
 VAC Indicator (if equipped).....CHECK
 AMPS and VOLTS.....CHECK
 Annunciators.....CONSIDER
 Throttle.....CHECK IDLE
 Throttle.....1000 RPM or Less
 Throttle Friction.....ADJUST

BEFORE TAKEOFF

Flaps.....0°OR 10°
 Elevator Trim.....TAKEOFF
 Cabin Windows/Doors.....CLOSED/LOCKED
 Departure/Emergency Plan.....BRIEF
 * See Briefing Card*

TAKEOFF & CLIMB

Exterior Lights (when entering rwy).....ON
 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
 Recog Lights.....ON
 Nav Lights (day only).....OFF

PRE-MANEUVER

Recog Lights.....ON
 Mixture.....SET
 Fuel Selector.....BOTH
 Fuel.....State Quantity
 ESP and AC.....OFF
 Area.....CLEAR

ESP OFF INSTRUCTIONS

MFD aux page > Small FMS knob to system
 setup > Soft key to "setup 2" > Press FMS
 knob > "Disable"

DESCENT

Power.....AS NEEDED
 Mixture.....ADJUST
 BARO.....SET
 FMS/GPS.....Set and Brief
 Flaps/Airspeed.....CONFIGURE

BEFORE LANDING

Seats/Seatbelts.....Secure/Locked
 Fuel Selectors.....BOTH
 Mixture.....RICH
 Landing (Night) / Recoq (Day).....ON
 Autopilot.....OFF (200 AGL)
 Air Conditioning.....OFF

AFTER LANDING

Flaps.....UP
 Radios.....Set (As Required)
 Recoq Light.....ON
 Strobes (Night Only).....OFF

SECURING AIRPLANE	
XPNDR	VFR
Throttle	IDLE
Strobe, Nav, and Recog Lights.....	OFF
All other electrical equipment.....	OFF
Interior Lights.....	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

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 rec)
LAND	As soon as practicable

INSUFFICIENT RATE OF CHARGE	
MASTER SWITCH (ALT ONLY)	OFF
ALT FIELD CIRCUIT BREAKER.....	IN
MASTER SWITCH (ALT ONLY)	ON
ELECTRICAL EQUIPMENT	SHED (As rec)
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)	

EMERGENCY PROCEDURES	
<i>*Items in bold are to be committed to memory*</i>	
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

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, squawk 7700.	
Emergency landing without power checklist.....	COMPLETE

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

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

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	

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



KADS		
ATIS (972-628-2439)		133.4
Ground		121.6
Tower (972-628-2420)		126.0
Approach (972-615-2500)	124.3/124.25	
Atlantic (972-713-7000) :		122.85

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