

CESSNA 172S G1000 NORMAL CHECKLIST

PREFLIGHT**Cabin**

Documents	A R O W
Control Lock	Remove
Magnetos	Off
Avionics Bus 1 & 2	Off
Master Switch	On
PFD	Check On
Fuel Quantity	Check
Oil and Vac Annun	Check On
Avionics Bus 1	On/check fan/Off
Avionics Bus 2	On/check fan/Off
Flaps	Down
Lights and Pitot Heat	Check then Off
Low Volts Annun	Check On
Master Switch	Off
Fuel Shutoff Valve	Off (In)
Fuel Selector	Both

Empennage

Baggage Door	Secure
Control Surfaces	Check
Antennas	Secure

Right Wing

Right Flap	Check
Right Aileron	Check
Wingtip & Leading Edge	Check
Right Tank Sumps	Check x 5
Fuel Cap/Qty	Check
Right Tire and Brake	Check

Nose

Engine Oil	6-7 Qts
Fuel Strainer	Check x 3
Exhaust	Secure
Tire* and Strut	34PSI / Check
Prop and Spinner	Check
Cooling Intakes	Clear
Alternator Belt	Secure
Air Filter	Clear
Static Port	Clear

Left Wing

Left Leading Edge	Check
Pitot Tube	Clear
Stall Warning Inlet	Clear
Fuel Vent	Open
Left Wingtip	Check
Left Aileron	Check
Left Flap	Check
Left Tank Sump	Check x 5
Fuel Cap/Qty	Check
Left Tire and Brake	28 PSI / Check

PRE-START

Preflight / PX Brief	Complete
Seats, Belts, Harness	Secure
Brakes	Hold
Avionics Bus 1 & 2	Off
Circuit Breakers	Check In
Fuel Selector	Both

G1000 STARTUP

STBY BATT-Test 20 Sec-Green Light On	
STBY BATT	Arm/Check PFD On
Engine Indications	Check / No Red X's
BUS E Volts	Check / 24V Min
M BUS Volts	Check / 1.5V or Less
BATT S Amps	Check / Discharge
STBY BATT Annun	Check On

START - HOT/FLOOD SEE RVS

Master Switch	On
Beacon	On
Mixture	Rich
Throttle	Full
Fuel Pump	ON, 5 GPH, OFF
Throttle	1/4 Inch Open
Mixture	Idle Cut-off
Propeller Area	Clear
Magnetos	Start
Mixture	Rich
Throttle	800 RPM
Oil Pressure	Check
Taxi light	On
Avionics Bus 1 & 2	On
Mixture	Taxi Lean
Flaps	Retract
Transponder	Code / On

TAXI

ATIS/ Taxi Clearance	Obtain
Brakes	Check
Turn Instruments	Check

GENERAL INFO

Vx	62
Vy	74
Vso	40
Vs	48
Va	90-105
Vfe 10, 20-30	85, 110
Vno	129
Vne	163
Vglide	65
X-wind	15
Max TO/LDG Wt	2550
Usable Fuel (Full)	53 Full, 35 Neck

CESSNA 172S G1000 NORMAL CHECKLIST

RUNUP / PRE-TAKEOFF

Brakes	Hold
Fuel Selector	Both
Trim	Takeoff
Flight Controls	Free and Correct
PFD Instruments	Set/Check
Backup Instruments	Set/Check
Mixture	Rich
Throttle	1800 RPM
Magnetos	Check (150/50)
Vacuum	Check
Amps / Volts	Check
Oil Pressure	Check
Oil Temperature	Check
Annunciators	Check None Shown
Throttle	Idle Check
Takeoff & Departure	Review
Flaps	0-10
Mixture	Best Power
Transponder	Code / Alt
Lights	As Required

NORMAL TAKEOFF

Throttle	Full
Oil Pressure	Check
Rotate	55

Short Field - 10 flaps, Brakes hold, Power full, Brake Release, Vr, Climb 56 kts till obs clear

Soft Field - Flaps 10, Elevator full aft, Accelerate in ground effect to Vy

CLIMB

Throttle	Full
Flaps	Retract
Airspeed	70-85
Mixture	Lean abv 3000
Landing Light	Off
Ft and Eng Insts	Check

CRUISE

Throttle	Set
Mixture	Lean
Altimeters x 3	Check/Set

**DESCENT**

Fuel	Both
Power	As Required
Mixture	As Required

BEFORE LANDING**G U M P S**

Gas	Both
Undercarriage	Down
Mixture	Rich
Power	Set
Seatbelts	Secure
Flaps	Set
Landing Light	On

Short Field - Flaps Full, Approach 61, Clear 50' obs, touchdown on spot, Retract flaps, Max brakes

Soft Field - Full Flaps, Approach 65, Touchdown as soft/slow as possible, keep nose off runway

REJECTED LANDING**4 C's**

Cram	Power
Climb	Attitude
Clean	Gear and Flaps
Communicate	Go-Around

AFTER LANDING

Flaps	Retract
Mixture	Ground Lean
Lights	As Required
Pitot Heat	Off
Transponder	On

SHUTDOWN

Avionics Bus 1 & 2	Off
Lights	Off
Mixture	Idle Cut-off
Magnetos	Off
Master	Off
STBY BATT	Off

SECURING

Control Lock	Install
Tie-Down / Chocks	Secure
Cowl / Pitot Plugs	Install
Clean	Windows
Lock	All Doors

CESSNA 172S G1000 EMERGENCY CHECKLIST

ENGINE FAILURE AFTER T/O	
Airspeed	65 KTS
Mixture	Idle Cutoff
Fuel Shutoff Valve	Off (Pull)
Mags	Off
Flaps	As Required
Master	Off
Door	Unlatch
Land	Straight Ahead

ENGINE FAILURE DURING FLIGHT	
Airspeed	65 KTS
Landing Spot	Select
Fuel	Both
Fuel Shutoff	On
Mixture	Full
Throttle	Full
Aux Pump	On
Mags	On

EMERGENCY LANDING WITHOUT POWER

Seats and Seatbelts	Secure
Airspeed	65 KTS
Fuel Shutoff	Off (Pull)
Mixture	Cut-Off
Throttle	Idle
Mags	Off
Aux Fuel Pump	Off
Flaps	As Required
Master	Off
Doors	Unlatch

PRECAUTIONARY LANDING WITH POWER

Seats and Seatbelts	Secure
Airspeed	60 KTS
Flaps	20
Landing Area	Fly Over
Avionics Master	Off
Flaps	30
Master	Off
Doors	Unlatch

REQUIRED EQUIPMENT

Day VFR A - T O M A T O - F L A M E S
Anti Collision Lights, Tach, Oil Pressure, Mag Compass, Airspeed, Temp (Liquid Cooled Engine), Oil Temp, Fuel Guages, Landing Gear Indicator, Altimeter, Manifold Pressure, ELT, Seatbelts
Night VFR "F L A P S"
Fuses, Landing Light (Hire), Anti-Collision, Position Lights, Source of Power

DITCHING	
Radio / XPDR	MAYDAY 121.5 / 7700
Heavy Objects	Secure or Jettison
Seats and Seatbelts	Secure
Flaps	20 - 30
Power	300FPM Descent @ 55 KTS or 65 with no power
Approach	
High Winds/Seas	Into Wind
Lt Wind/Heavy Swells	Parallel Swells
Touchdown	Level Attitude
Face	Cushion
ELT	Arm
Airplane	Evacuate

FIRE DURING START

If Engine Starts	
Power	1700 for 1 Minute
Engine	Shutdown
If Engine Fails to Start	
Throttle	Full Open
Mixture	Idle Cutoff
Cranking	Continue
Fuel Shutoff Valve	Off (Pull)
Aux Fuel Pump	Off
Fire Extinguisher	Obtain
Engine	Secure
Master	Off
Mags	Off
Parking Brake	Release
Airplane	Evacuate
Fire	Extinguish

ENGINE FIRE IN FLIGHT

Mixture	Idle Cutoff
Fuel Shutoff Valve	Off (Pull)
Aux Fuel Pump	Off
Master	Off
Cabin Heat and Air	Closed
Airspeed	100 KTS
Force Landing	Execute

CABIN FIRE

Master	Off
Vents/Air/Heat	Closed
Fire Extinguisher	Activate
Vents/Air/Heat	Open if Fire is Out
Land	ASAP
IFR "G R A B C A R D"	
Gen/Alt, Radios, Attitude Indicator, Ball, Clock, Altimeter (Sensitive), Rate of Turn, DG	

CESSNA 172S G1000 EMERGENCY CHECKLIST

WING FIRE	
All Lights	Off
Pitot Heat	Off
Side slip to keep fire away from tanks and cabin	

ELECTRICAL FIRE IN FLIGHT

Master	Off
Vents, Cabin Air, Heat	Off
Fire Extinguisher	Activate
Avionics	Off
All Other Electrical	Off
Vents	Open if Fire is Out
<i>*If fire is out and electrical is required for flight</i>	
Master	On
Circuit Breakers	Check DO NOT Reset
Radios	Off
Avionics	On
Radios/Electrical	On, One at a Time

LOW VOLTAGE ANNUNCIATOR

Mstr Switch (ALT Only)	Off
ALT FIELD CB	In
Master Switch	Both Sides On
Low Volt Annun	Check Off
M BUS VOLTS	Check 27.5 Min
M BAT Amps	Check Charging (+)
<i>If it does not solve the problem</i>	
Mstr Switch (ALT Only)	Off
Electrical Load	Reduce in order
Avionics Bus 1	Off
Pitot Heat	Off
Beacon	Off
Landing Light	Off
Taxi Light	Off
Nav Lights	Off
Strobe Ligsts	Off
Cabin Pwr 12V	Off
Avionics Bus 2	Off if VFR
<i>*See POH 3-17 for Expanded Procedure</i>	

ADS / AHRS FAILURE

RED X - PFD AIRSPEED	
ADC/AHRS CB	Check In
Stby Airspeed Ind	Use
RED X - PFD ALTITUDE	
ADC/AHRS CB	Check In
Stby Altimeter	Use
RED X - PFD ATTITUDE	
ADC/AHRS CB	Check In
Stby Attitude Ind	Use
RED X - HIS	
ADC/AHRS CB	Check In
Mag Compass	Use for Heading Info

HOT START

G1000 STARTUP SEE RVS	
Master Switch	On
Beacon	On
Mixture	Cut-off
Throttle	Half Open
Propeller Area	Clear
Magnetos	Start
Mixture	Rich
Throttle	800 RPM
Oil Pressure	Check
Mixture	Taxi Lean
Avionics Bus 1 & 2	On
Mixture	Taxi Lean
Flaps	Retract
Transponder	Code / On

FLOODED START

G1000 STARTUP SEE RVS	
Master Switch	On
Beacon	On
Mixture	Rich
Throttle	Full
Fuel Pump	ON, 5 GPH, OFF
Mixture	Idle Cut-off
Propeller Area	Clear
Magnetos	Start
Mixture	Rich
Throttle	800 RPM
Oil Pressure	Check
Avionics Bus 1 & 2	On
Mixture	Taxi Lean
Flaps	Retract
Transponder	Code / On

LIGHT GUN SIGNALS

Color and Type	Ground
Steady Green	Cleared for Takeoff
Flashing Green	Clear for Taxi
Steady Red	Stop
Flashing Red	Taxi Clear Ldg Area
Flashing White	Return To Start Point
Alt Red and Green	Extreme Caution
Color and Type	Flight
Steady Green	Cleared to Land
Flashing Green	Return for Landing
Steady Red	Give Way
Flashing Red	Airport Unsafe
Alt Red and Green	Extreme Caution