

Cessna 172 S Checklist

GARMIN 1000

PREFLIGHT INSPECTION

INTERIOR

Pitot Tube Cover	REMOVE
POH	ACCESSIBLE
G1000 Reference Guide	ACCESSIBLE
Weight and Balance	CHECKED
Parking Break	SET
Control Wheel Lock	REMOVE
MAGNETOS	OFF
AVIONICS Switch (BUS 1 and BUS 2)	OFF
MASTER Switch (ALT and BAT)	ON
Check Lights	OPERABLE
PFD	VERIFY PFD is ON
FUEL QTY (L & R)	CHECK
OIL PRESSURE Annunciator	SHOWN
LOW VACUUM Annunciator	SHOWN
AVIONICS Switch (BUS 1)	ON
Forward Avionics Fan	VERIFY Fan is heard
AVIONICS Switch (BUS 1)	OFF
AVIONICS Switch (BUS 2)	ON
Aft Avionics Fan	VERIFY Fan is heard
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 CONTROL	TAKEOFF
FUEL SELECTOR VALVE	BOTH
ALT STATIC AIR VALVE	OFF (Push full in)
Fire Extinguisher	VERIFY in green arc

EXTERIOR

Baggage Compartment Door	CHECK
Fuselage	CHECK
Tail Tiedown	DISCONNECT
Control Surfaces	CHECK

(Freedom of movement and security)

Elevator Trim Tab	CHECK (Security)
Antennas	CHECK

(Security and general condition)

R WING FLAP	CHECK (Security and condition)
R WING AILERON	CHECK

(Freedom of movement and security)

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

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 Opening	CHECK Blockage
Landing/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

(Freedom of movement and security)

L Wing Flap	CHECK (Security and Condition)
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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	CHECK OFF

STARTING ENGINE

Throttle	OPEN ¼ INCH
Mixture	IDLE CUTOFF
STBY BATT Switch	TEST 10 SECONDS
STBY BATT Switch	ARM (CHECK PFD ON)
Engine Indicating Systems	NO RED X's
BUS E Volts	CHECK – 24 volts minimum
BUS M Volts	CHECK – 1.5 Volts or less
BATT S Amps	CHECK negative discharge
STBY BATT Annunciator	CHECK shown
PROP AREA	CLEAR
MASTER Switch (ALT & BAT)	ON
BEACON Light Switch	ON
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	ADVANCE SMOOTHLY to rich
FLAPS	UP
Oil Pressure	CHECK in green
AMPS	CHECK Positive charges
LOW VOLTS Annunciator	CHECK not shown
Lights	AS REQUIRED
AVIONICS Switch (BUS 1 & 2)	ON
MIXTURE	LEAN FOR TAXI

BEFORE TAKEOFF

Pilot and Passenger Seat Backs	UPRIGHT
Seats and Seat Belts	CHECK SECURE
Cabin Doors	Closed and Locked
Flight Controls	FREE and CORRECT
Flight Instruments	CHECK NO RED X's
PFD (BARO)	SET

STANDBY ALTIMETER	SET
ALT SEL	SET
STANDBY FLIGHT INSTRUMENTS	CHECK
FUEL QUANTITY	CHECK
MIXTURE	RICH
FUEL SELECTOR VALVE	BOTH
AUTOPILOT	ENGAGE/CHECK
FLIGHT CONTROLS	CHECK
(Verify A/P can be overpowered in both pitch and roll axes)	
AUTOPILOT TRIM DISCONNECT	PRESS
(Verify A/P disengages and aural alert is heard)	
FLIGHT DIRECTOR	OFF
ELEVATOR TRIM	SET FOR TAKEOFF
THROTTLE	1800 RPM
MAGNETOS Switch	CHECK L & R
(RPM drop should not exceed 150 RPM on either magneto or 50 RPM differential between magnetos)	
VAC Indicator	CHECK
ENGINE Indicators	CHECK
AMMETERS and VOLTMETERS	CHECK
ANNUNCIATORS	CHECK(verify none)
THROTTLE	CHECK IDLE
THROTTLE	1000 RPM or LESS
THROTTLE FRICTION LOCK	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	UP – 10 degrees
CABIN WINDOWS	CLOSED/LOCKED
STROBE Light Switch	ON
BRAKES	RELEASE

Emergency Takeoff Briefing:

On takeoff Roll
 After lift off, Below 1,000ft AGL
 Above 1,000ft AGL and/or turned Crosswind

TAKEOFF

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 recommended)	
TRIM	ADJUST
MIXTURE	LEAN
FMS/GPS	REVIEW and BRIEF

DESCENT

POWER	AS DESIRED
MIXTURE	ADJUST AS NECESSARY
PFD BARO	SET
STANDBY ALTIMETER	SET
ALT SEL	SET
CDI SOFTKEP	SELECT NAV SOURCE
FMS/GPS	REVIEW and BRIEF
FUEL SELECTOR	BOTH
FLAPS	AS DESIRED

BEFORE LANDING

PILOT and PASSENGER SEATS	UPRIGHT
SEATS AND SEATBELTS	SECURE/LOCKED
FUEL SELECTOR	BOTH
MIXTURE	RICH
LANDING LIGHT	ON
TAXI LIGHT	ON
AUTOPILOT	OFF
CABIN PWR 12V Switch	OFF
Air Conditioning	OFF

AFTER LANDING

FLAPS	UP
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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



Thrust Flight
 4700 Airport Parkway
 Addison, Texas 75001
 972.735.9099

After Hours Manager 972.735.9099 ext. 107

KADS		
ATIS		133.40
Ground		121.60
Tower		126.00
Approach		124.3/124.25
After Hours School Manager	972.735.9099 ext. 7	

V _r – 55 KIAS	V _{fe 10} – FULL 85 KIAS
V _x – 62 KIAS	V _{no} – 129 KIAS
V _y – 74 KIAS	V _{ne} – 163 KIAS
V _a – 105 KIAS	V _{s1} – 48 KIAS
V _{fe} – 10 – 110 KIAS	V _{so} – 40 KIAS
	V _g – 68 KIAS

EMERGENCY PROCEDURES

ENGINE FAILURE DURING TAKEOFF ROLL

Throttle Control	IDLE
Brakes	APPLY
Flaps	RETRACT
Mixture	IDLE CUTOFF
Magnetos Switch	OFF
STBY BATT Switch	OFF
MASTER Switch (ALT and BAT)	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 - RESTART

Airspeed	68 KIAS (best glide speed)
FUEL SHUTOFF Valve	ON (push full in)
FUEL SELECTOR VALVE	BOTH
FUEL PUMP Switch	ON
MIXTURE RICH (If restart has not occurred)	
MAGNETOS Switch	BOTH (or start)
FUEL PUMP Switch	OFF

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 PRIOR TO TOUCHDOWN	
TOUCHDOWN	SLIGHTLY TAIL LOW
BRAKES	APPLY HEAVILY

ENGINE FIRE DURING START ON GROUND

MAGNETOS Switch	START
	(Continue cranking to start engine)
IF ENGINE STARTS:	
Power	1800 RPM for a few minutes
Engine	SHUTDOWN(inspect for damage)

IF ENGINE FAILS TO START

Throttle	FULL(push full in)
Mixture	IDLE CUTOFF
MAGNETOS Switch	START (continue cranking)
FUEL SHUTOFF Valve	OFF (pull full out)
FUEL PUMP Switch	OFF
MAGNETOS Switch	OFF
STBY BATT Switch	OFF
MASTER Switch (BUS 1 & 2)	OFF
ENGINE	SECURE
Parking Brake	RELEASE
Fire Extinguisher	OBTAIN
Airplane	EVACUATE
Fire	EXTINGUISH
Fire damage	INSPECT

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