

CESSNA 172-S G-1000 FLIGHT CHECKLIST

PREFLIGHT

CERT/ DOC.....ON BOARD
 TACH/HOBBS.....RECORD
 FIRE EXT.....PIN/GREEN
 CONTROL LOCK.....REMOVE
 MAGS.....OFF
 MIXTURE.....LEAN
 CIRCUIT BRKRS.....IN
 ALT STATIC.....NORMAL
 MASTER SWITCH.....ON
 AVIONICS FAN.....CHECK
 FLAPS.....DOWN
 FUEL QUANTITY.....CHECK
 LIGHTS.....CHECK
 PITOT HEAT.....CHECK
 MASTER SWITCH.....OFF
 EXTERIOR.....COMPLETE

BEFORE STARTING ENGINE

PREFLIGHT.....COMPLETE
 CHOCKS.....REMOVED
 AVIONICS MASTER.....OFF
 PAX BRIEF.....COMPLETE
 SEATS.....ADJUSTED/LOCKED
 SEAT BLTS.....FASTEN/CHK LOCK
 ALL ELECTRICAL.....OFF
 FUEL SELECTOR.....BOTH
 FUEL SHUTOFF.....PUSH IN

ENGINE START

MIXTURE.....LEAN
 THROTTLE.....OPEN 1/4 INCH
 STBY BATT.....TEST 20 SECS, ARM
 ENGINE INDICATION.....NO RED X'S
 BUS E VOLTS.....24 V MINIMUM
 M BUS VOLTS.....1.5 V OR LESS
 BATT S AMPS.....NEGATIVE SHOWN
 STBY BATT ANNUCTR.....SHOWN
 MASTER SWITCH.....ON
 BEACON LIGHT.....ON

ENGINE PRIME PROCEDURE

FUEL PUMP.....ON

MIXTURE.....RICH till fuel flow then LEAN
 FUEL PUMP.....OFF
 PROP AREA.....CLEAR
 BRAKES.....HOLD
 STARTER.....ENGAGE
 Once Engine Starts:
 MIXTURE.....FULL RICH
 THROTTLE.....800-1000
 OIL PRESSURE.....IN GREEN

AVIONICS MASTER.....ON
 FLAPS.....UP
 AMPS.....CHECK POSITIVE
 LOW VOLTS ANUCTR.....NOT SHOWN

PRE-TAXI

RADIOS.....SET
 WEATHER.....OBTAIN
 WIND.....SET W/ HDG BUG
 ALTIMETERS, PFD, STBY, AP.....SET
 G1000 ALT SELECT.....SET
 STBY INSTRUMENTS.....CHECK
 FUEL QTY.....VERIFY LEVEL CORRECT
 AIRSPEED.....ZERO
 VSI.....ZERO
 GPS FLIGHT PLAN.....SET
 LIGHTS.....AS REQUIRED
 MIXTURE.....LEAN

WHILE TAXIING

BRAKES.....CHECK
 TURN COORD.....CHECK

GROUND CHECK

POINT AIRPLANE INTO WIND

BRAKES.....SET/HOLD
 CONTROLS.....FREE/CORRECT
 MIXTURE.....RICH
 THROTTLE.....1800 RPM
 ENGINE INSTRUMENTS.....NO RED X'S
 VACUUM.....CHECK
 ALTERNATOR.....TEST
 MAG CHECK.....MAX DROP 125
 THROTTLE.....CHECK IDLE, THEN 800-
 1000

BEFORE TAKEOFF

RADIOS.....SET
 HDG INDICATOR.....CHECK
 MIXTURE.....FULL RICH
 SEAT BELTS.....FASTENED
 ANUNCIATORS.....CLEAR
 DOOR/WINDOWS.....LATCHED
 FLAPS.....SET
 TRIM.....SET FOR TKOFF

TRANSPONDER.....SET
 LIGHTS.....LANDING & STROBE

TAKEOFF

THROTTLE.....FULL OPEN
 ENGINE INST.....CHECK
 ROTATE.....55 KIAS
 Vx.....62 KIAS
 Vy.....74 KIAS

ENROUTE CLIMB

AIRSPEED.....75-85 KIAS
 MIXTURE.....AS REQUIRED
 LIGHTS.....AS REQUIRED

CRUISE

POWER.....23-2400 RPM
 TRIM.....AS REQUIRED
 MIXTURE.....LEAN ABOVE 3000'

DESCENT

MIXTURE.....RICH
 WEATHER.....OBTAIN
 LANDING LIGHT.....ON

BEFORE LANDING

APP BRIEF.....COMPLETE
 FUEL SELECTOR.....BOTH
 MIXTURE.....RICH
 SEATBELTS.....FASTENED
 FINAL APP SPEED.....65 KIAS

AFTER LANDING

FLAPS.....UP
 STROBES.....OFF
 LANDING LIGHT.....OFF
 PITOT HEAT.....OFF
 TRIM.....SET
 TAXI LIGHT.....ON
 MIXTURE.....LEAN

SHUTDOWN

AVIONICS MASTER.....OFF
 ALL ELEC. SWITCHES.....OFF
 BEACON.....ON
 THROTTLE.....IDLE
 MIXTURE.....FULL LEAN/CUTOFF
 MAGNETOS.....OFF
 BATT MASTER.....OFF
 TACH/HOBBS.....RECORD
 STANDBY BATT.....OFF
 WHEEL.....CHOCK

KVPZ FREQUENCIES

AWOS.....125.87.....219-531-1770
 CTAF/UNICOM.....122.72

FSS TERRE HAUTE.....123.65....122.20
 SOUTH BEND CLNC.....120.52
 SOUTH BEND APP/DPART.....132.05
 KNOX VOR (OXI).....115.6
 TERMINAL.....219-462-6508

Challenge

Response

ENGINE FAILURE DURING TAKEOFF ROLL

Throttle.....	IDLE
Brakes.....	APPLY
Wing Flaps.....	RETRACT
Mixture.....	IDLE CUT-OFF
Fuel Shutoff Valve.....	PULL OFF
Magneto Switch.....	OFF
Standby Battery Switch.....	OFF
Master Switch.....	OFF

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

Airspeed.....	(flaps up) 70 KIAS
Mixture.....	IDLE CUT-OFF
Fuel Shutoff Valve.....	PULL OFF
Magnetos.....	OFF
Wing Flaps.....	AS REQUIRED
Standby Battery Switch.....	OFF
Master Switch.....	OFF
Door.....	UNLATCH

ENGINE FAILURE IN FLIGHT

Trim for Best Glide.....	68 KIAS
Pick Suitable Landing Site	
Fly Toward Landing Site	
Fuel Shutoff Valve.....	ON
Fuel Selector.....	BOTH
Fuel Pump.....	ON
Mixture.....	RICH
Magnetos.....	ON / BOTH
IF NO RESTART OR AN OFF AIRPORT LANDING IS NECESSARY: Squawk Code: 7700 (121.5)	
Passenger Briefing.....	COMPLETE
Mix, Mags, Fuel Shutoff Valve, Fuel Pump.....	OFF
Flaps.....	AS REQUIRED
Standby Battery Switch.....	OFF
Master Switch.....	OFF
Seats / Seat Belts.....	SECURE
Loose Objects.....	STOW
Doors.....	AJAR

ENGINE FIRE DURING START UP

Cranking.....	CONTINUE
IF ENGINE STARTS:	
Throttle.....	1800 RPM
Engine.....	SHUTDOWN
Engine.....	INSPECT
IF ENGINE FAILS TO START:	
Throttle.....	FULL OPEN
Mixture.....	IDLE CUT-OFF
Cranking.....	CONTINUE
Fuel Shutoff Valve.....	PULL OFF
Fuel Pump.....	OFF
Magnetos.....	OFF
Standby Battery Switch.....	OFF
Master Switch.....	OFF

Highlighted Items Should be Committed to Memory

Challenge

Response

ENGINE FIRE DURING START UP (continued)

Fire Extinguisher.....	OBTAIN / ARM
Engine.....	SECURE
Airplane.....	EVACUATE
Engine.....	INSPECT

ENGINE FIRE IN FLIGHT

Mixture.....	IDLE CUT-OFF
Fuel Shutoff Valve.....	OFF / PULL OUT
Fuel Pump.....	OFF
Standby Battery Switch.....	OFF
Master Switch.....	OFF
Vents Heat / Air.....	CLOSED
(except overhead vents)	
Airspeed.....	100 KIAS
(If fire is not extinguished, increase glide speed to find an airspeed which will provide an incombustible mixture.)	
Forced Landing.....	EXECUTE
SEE ENGINE FAILURE IN FLIGHT: NO RESTART CHECKLIST	

ELECTRICAL FIRE IN FLIGHT

Standby Battery Switch.....	OFF
Master Switch.....	OFF
All Other Switches Except Ignition.....	OFF
Vents Heat / Air.....	CLOSED
Fire Extinguisher.....	ACTIVATE
WARNING: AFTER DISCHARGING FIRE EXTINGUISHER WITHIN CLOSED CABIN, VENTILATE CABIN	
IF FIRE APPEARS OUT AND ELECTRICAL POWER IS NECESSARY FOR CONTINUANCE OF FLIGHT	
Circuit Breakers.....	check for faulty circuit, do not reset
Master Switch.....	ON
Avionics Switch (Bus 1).....	ON
Avionics Switch (Bus 2).....	ON

AMMETER SHOWS EXCESSIVE RATE OF CHARGE

Master.....	OFF
Non-Essential Electrical Equip.....	OFF
Avionics Switch (Bus 1 & 2).....	OFF
Flight.....	LAND AS SOON AS PRACTICAL

LOW VOLTAGE LIGHT ILLUMINATES IN FLIGHT

Avionics Switch (Bus 1 & 2).....	OFF
Alternator Circuit Breaker.....	CHECK IN
Master Switch.....	OFF
Master Switch.....	ON
Low Voltage Light.....	CHECK OFF
Avionics Switch (Bus 1 & 2).....	ON
IF LOW VOLTAGE LIGHT ILLUMINATES AGAIN	
Alternator.....	OFF
Non-Essential Radio / Electrical Equip.....	OFF
Flight.....	LAND AS SOON AS PRACTICAL

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