



CESSNA 172 S EMERGENCY PROCEDURES & PREFLIGHT CHECKLIST v3-Jan-23

*This is to be used as a REFERENCE ONLY, it is not a substitute for the Airplane Flight Manual.

*Refer to AFM/POH for amplified procedures. User assumes all risk of use in using this product. User consents to and understands that American Flight Schools bears no liability for the use of this product.

ENGINE FAILURE DURING TAKEOFF

1. Throttle.....IDLE
2. Brakes.....APPLY
3. Flaps.....RETRACT
4. Mixture.....IDLE CUT OFF
5. Magnetos.....OFF
6. Master Batt/Alt.....OFF

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

1. Airspeed.....70kts (flaps UP)
65kts (10° - DOWN)
2. Throttle.....IDLE
3. Mixture.....IDLE CUT OFF
4. Fuel Shutoff.....OFF(Full Out)
5. Magnetos.....OFF
6. Flaps.....AS REQUIRED
7. Master Batt/Alt.....OFF
8. Cabin Doors.....UNLATCH
9. Land.....STRAIGHT AHEAD

ENGINE FAILURE DURING FLIGHT

1. Airspeed.....68 KIAS
2. Fuel Shutoff.....ON (full in)
3. Fuel Selector.....BOTH

4. Auxiliary Fuel Pump.....ON
5. Mixture.....RICH
6. Magnetos.....BOTH
7. Aux. Fuel Pump.....ON
8. Starter.....Consider

Windmilling

Engine should start automatically

NOT Windmilling

1. Starter.....ENGAGE
2. Throttle.....ADVANCE
3. Mixture.....LEAN
9. Aux. Fuel Pump.....OFF
10. Fuel Flow.....Check

POWER OFF LANDING

1. Passenger Seat Backs.....UPRIGHT
2. Seats and Seat Belts.....SECURE
3. Airspeed.....70 KIAS (flaps UP)
65 KIAS (flaps DOWN)
4. Mixture.....IDLE CUT OFF
5. Fuel Shutoff.....OFF(full out)
6. Magnetos.....OFF
7. Flaps.....As Required
8. Master Batt/Alt.....OFF
9. Doors.....UNLATCH
10. Touchdown.....Normal Landing
11. Brakes.....MAXIMUM SAFE

PRECAUTIONARY LANDING WITH ENGINE POWER

1. Passenger Seat Backs.....UPRIGHT
2. Seats and Seat Belts.....SECURE
3. Airspeed.....65 KIAS
4. Wing Flaps.....20°
5. Selected Field.....Fly Over/Assess
6. Avionics Master.....OFF
7. Wing Flaps.....30°(on final approach)
8. Airspeed.....65 KIAS
9. Master Batt/Alt.....OFF
10. Doors.....UNLATCH
11. Touchdown.....SLIGHTLY TAIL LOW
12. Magnetos.....OFF
13. Brakes.....MAXIMUM SAFE

FIRE DURING START

1. Starter.....ENGAGE, hold
Cranking the engine should draw the fire back into the engine

If fire is OUT:

1. Power.....1800rpm a few min
2. Engine.....SHUTDOWN
3. Inspect for Damage

If fire CONTINUES:

2. Throttle.....FULL IN
3. Mixture.....IDLE CUT-OFF
4. Cranking.....CONTINUE
5. Fuel Shutoff.....OFF(Full Out)
6. Aux. Fuel Pump.....OFF
7. Master Batt/Alt.....OFF
8. Magnetos.....OFF
9. Extinguisher.....COLLECT
10. Parking Brake.....RELEASE
11. Airplane.....EVACUATE
12. Fire.....EXTINGUISH
13. Fire Damage.....INSPECT

ENGINE FIRE IN FLIGHT

1. Mixture.....IDLE CUTOFF
2. Fuel Shutoff Valve.....OFF(Full Out)
3. Aux. Fuel Pump.....OFF
4. Master Batt/Alt.....OFF
5. Cabin Vents.....OPEN
6. Cabin Heat and Air.....OFF
7. Airspeed.....100 KIAS

If fire is not extinguished, execute emergency descent until extinguished or safe landing can be made

8. Power Off Landing.....EXECUTE

ELECTRICAL FIRE IN FLIGHT

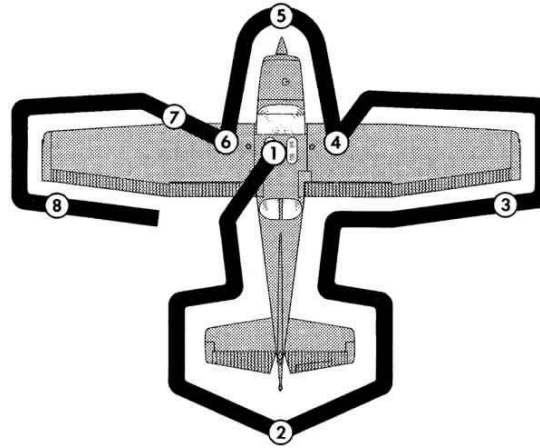
1. Master Batt/Alt.....OFF
2. Vents, Cabin Air/Heat.....CLOSED
3. Extinguisher.....ACTIVATE
Execute emergency descent and precautionary landing if the Fire cannot be extinguished.
4. Avionics Master.....OFF
5. All Electrical.....OFF
6. Cabin Vents.....OPEN
7. Cabin Heat & Air.....OFF
8. Circuit Breakers.....Check/do not reset
If fire is extinguished and electrical power is required for safe flight to nearest suitable airport or landing area
9. Master Batt/Alt.....ON
10. Radio Units.....MANUAL OFF
Reactivate ONLY the most critical electrical equipment for survival. Do so ONLY one component at a time and assess for fire.
11. Avionics Master.....ON
12. Radios.....As Needed
13. Lights.....As Needed
14. Land.....as soon as practical

CABIN FIRE

1. Master Batt/Alt.....OFF
2. Vents/Cabin Air/Heat.....CLOSED
3. Fire Extinguisher.....ACTIVATE
4. Vents/Cabin Air/Heat.....OPEN
5. Land.....as soon as practical

WING FIRE

1. Strobe, Taxi, Nav, Land Lights.....OFF
2. Pitot Heat.....OFF
Perform a sideslip to keep the flames away from the fuel tank and cabin. Execute emergency descent and precautionary landing if Fire cannot be extinguished.



PREFLIGHT INSPECTION

CABIN

1. Pitot Tube Cover.....Remove
2. ARROW Docs.....Check
3. Parking Brake.....SET
4. Control Wheel Lock.....Remove
5. Magnetos.....OFF
6. Avionics Master.....OFF
7. All Electrical.....OFF
8. Master Batt/Alt.....ON
9. Fuel Gauges.....Check
10. Avionics Master.....ON
11. Avionics Cooling Fan.....Verify On
12. Avionics Master.....OFF
13. Static Alternate Source.....OFF
14. Annunciator TST.....Hold/Check
15. Fuel Selector Valve.....BOTH
16. Fuel Shutoff Valve.....ON (full IN)
17. Flaps.....Full DOWN
18. Pitot Heat.....ON/Check (30s max)
19. Pitot Heat.....OFF
20. All Lights.....ON/Check
21. All Lights.....OFF
22. Master Batt/Alt.....OFF
23. Elevator Trim.....SET for takeoff

EMPANAGGE/TAIL

1. Baggage Door.....Check/Lock
2. Autopilot Static Source.....Check
3. Elevator.....Free/Correct
4. Rudder.....Free/Correct
5. Tail Tie Down.....Disconnect
6. Trim Tab.....Check
7. Antennas.....Check

RIGHT WING

1. Aileron.....Free/Correct
2. Flap.....Check
3. Wing Tie-Down.....Disconnect
4. Fuel Sumps (5).....Drain/Check
5. Main Wheel.....Check
6. Fuel Quantity.....Visual Check
7. Fuel Filler Cap.....Secure

NOSE

1. Fuel Sumps (3).....Drain/Check
2. Engine Oil Dipstick.....Check
3. Engine Cooling Air Inlets.....Clear
4. Propeller/Spinner.....Check
5. Air Filter.....Check
6. Nose Wheel/Strut.....Check
7. Left Static Source.....Check

LEFT WING

1. Main Wheel.....Check
2. Fuel Quantity.....Visual Check
3. Fuel Filler Cap.....Secure
4. Fuel Sumps (5).....Drain/Check
5. Fuel Tank Vent.....Clear
6. Pitot Tube.....Clear
7. Stall Warning Opening.....Clear
8. Wing Tie-Down.....Disconnect
9. Aileron.....Free/Correct
10. Flap.....Check