



CESSNA 172S Nxi & G1000 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.

TAKEOFF ROLL ENGINE FAILURE

1. Throttle.....IDLE (full out)
2. Brakes.....APPLY
3. Flaps.....RETRACT
4. Mixture.....IDLE CUT OFF
5. Magnetos.....OFF
6. STBY Batt.....OFF
7. Master Batt/Alt.....OFF

AFTER TAKEOFF ENGINE FAILURE

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

DURING FLIGHT ENGINE FAILURE

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

4. Aux. 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. STBY Batt.....OFF
9. Master Batt/Alt.....OFF
10. Doors.....UNLATCH
11. Touchdown.....Normal Landing
12. Brakes.....MAXIMUM SAFE

PRECAUTIONARY LANDING

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

ENGINE START FIRE

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

If fire is OUT:

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

If fire CONTINUES:

2. Throttle.....FULL IN
3. Mixture.....IDLE CUTOFF
4. Starter.....Continue Holding
5. Fuel Shutoff.....OFF (Full Out)
6. Aux. Fuel Pump.....OFF
7. Magnetos.....OFF
8. STBY Batt.....OFF
9. Master Batt/Alt.....OFF
10. Engine.....SECURE
11. Parking Brake.....RELEASE
12. Extinguisher.....COLLECT
13. Airplane.....EVACUATE
14. Fire.....EXTINGUISH
15. Fire Damage.....INSPECT

IN FLIGHT ENGINE FIRE

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. STBY Batt.....OFF
2. Master Switch.....OFF
3. Cabin Vents.....CLOSED
4. Cabin Heat/Air.....OFF (full in)
5. Fire Extinguisher.....AS NEEDED

Execute emergency descent and precautionary landing if Fire cannot be extinguished.

6. Avionics Bus 1&2.....OFF
7. All Switches.....OFF

Ensure fire is extinguished before...

8. Cabin Vents.....OPEN
9. Cabin Heat/Air.....ON (full out)

If fire has been extinguished and electrical power is required for safe flight to nearest suitable airport or landing area

10. Circuit Breakers.....Check/Do Not Reset
11. Master Batt/Alt.....ON
12. STBY Batt.....ARM
13. Avionics Bus 1.....ON
14. Avionics Bus 2.....ON
15. Land as soon as practical

CABIN FIRE IN FLIGHT

1. STBY Batt.....OFF
2. Master Batt/Alt.....OFF
3. Cabin Vents.....CLOSED
4. Cabin Heat/Air.....OFF (full in)
5. Fire Extinguisher.....As Needed

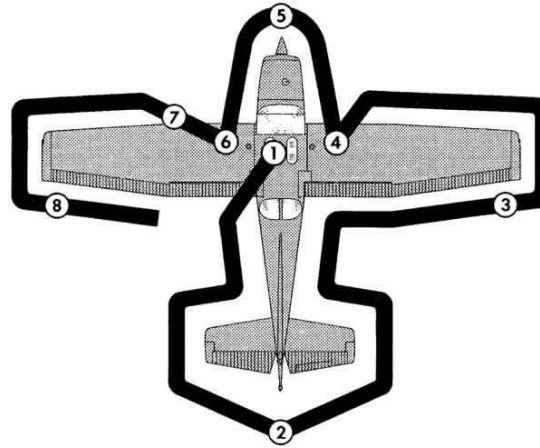
Execute emergency descent and precautionary landing if Fire cannot be extinguished.

6. Cabin Vents.....OPEN
7. Cabin Heat/Air.....As Needed
8. Land as soon as practical

WING FIRE IN FLIGHT

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. FSP.....Check-out
3. ARROW.....Check
4. Avionics Manuals.....Check
5. TOLD/W&B.....Complete
6. Parking Brake.....SET
7. Control Wheel Lock.....Remove
8. Magnetos.....OFF
9. Avionics BUS 1&2.....OFF
10. Master Batt/Alt.....ON
11. Primary Flight Display.....Check
12. Fuel Quantity.....Check
13. L/R Low Fuel Annunciators.....Check
14. Oil Pressure Annunciator.....Check
15. Low Vacuum Annunciator.....Check
16. Avionics BUS 1.....ON
17. Forward Avionics Fan.....Verify On
18. Avionics BUS 1.....OFF
19. Avionics BUS 2.....ON
20. Aft Avionics Fan.....Verify On
21. Avionics Bus 2.....OFF
22. Pitot Heat.....ON/Check (max 30s)
23. Pitot Heat.....OFF
24. Low Volts Annunciator.....Check
25. All Lights.....On/Check
26. All Lights.....OFF

27. Master Batt/Alt.....OFF
28. Elevator Trim.....Takeoff
29. Fuel Selector.....BOTH
30. Alt Static Air.....OFF (full in)
31. Fire Extinguisher.....Green

EMPANNAGE/TAIL

1. Baggage Door.....Close/Lock
2. Autopilot Static Source.....Clear
3. Rudder Gust Lock.....Remove
4. Tail Tie Down.....Disconnect
5. Control Surfaces.....Free/Clear
6. Elevator Trim Tab.....Check
7. Antennas.....Check

RIGHT WING

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

NOSE

1. Fuel Strainer (3).....Drain/Check
2. Oil.....CHECK (6-8)
3. Engine Air Inlets.....Clear
4. Propeller and Spinner.....Check
5. Air Filter.....Check
6. Nosewheel Strut and Tire.....Check
7. Static Source Opening.....Check

LEFT WING

1. Main Wheel Tire.....Check
2. Fuel Quantity.....Visually Verify
3. Fuel Filler Cap.....Secure
4. Fuel Strainers (5).....Drain/Check
5. Fuel Tank Vent Opening.....Clear
6. Stall Warning Opening.....Clear
7. Wing Tiedown.....Disconnect
8. Aileron.....Free/Correct
9. Flap.....Check