



NOTE: This is a Flight School Guide Only
Check the aircraft POH for specific details

C172S/R (Non-G1000)

EMERGENCY Checklists

(Items in bold should be memorized)

ENGINE FAILURES

ENGINE FAILURE DURING TAKEOFF ROLL

- 1. Throttle -- IDLE**
- 2. Brakes-- APPLY**
3. Wing Flaps -- RETRACT
4. Mixture -- IDLE CUT OFF
5. Ignition Switch -- OFF
6. Master Switch -- OFF

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

- 1. Airspeed -- 70 KIAS (flaps UP), 65 KIAS (flaps DOWN)**
2. Mixture -- IDLE CUT OFF
3. Fuel Shutoff Valve -- OFF (Pull Full Out)
4. Ignition Switch -- OFF
5. Wing Flaps -- AS REQUIRED

6. Master Switch -- OFF
7. Cabin Door -- UNLATCH
8. Land -- STRAIGHT AHEAD

ENGINE FAILURE DURING FLIGHT (Restart Procedures)

1. **Airspeed -- 68 KIAS**
2. **Fuel Shutoff Valve -- ON (push full in)**
3. **Fuel Selector Valve -- BOTH**
4. **Auxiliary Fuel Pump Switch -- ON**
5. **Mixture -- RICH (if restart has not occurred)**
6. Ignition Switch -- BOTH (or START if propeller is stopped)
7. Auxiliary Fuel Pump Switch -- OFF

FORCED LANDINGS

EMERGENCY LANDING WITHOUT ENGINE POWER

1. Passenger Seat Backs -- MOST UPRIGHT POSITION
2. Seats and Seat Belts -- SECURE
3. Airspeed -- 70 KIAS (flaps UP); 65 KIAS (flaps DOWN)
4. Mixture -- IDLE CUT OFF
5. Fuel Shutoff Valve -- OFF (Pull Full Out)
6. Ignition Switch -- OFF
7. Wing Flaps -- AS REQUIRED (30 deg recommended)
8. Master Switch -- OFF (when landing is assured)
9. Doors -- UNLATCH PRIOR TO TOUCHDOWN
10. Touchdown -- SLIGHTLY TAIL LOW
11. Brakes -- APPLY HEAVILY

PRECAUTIONARY LANDING WITH ENGINE POWER

1. Passenger Seat Backs -- MOST UPRIGHT POSITION
2. Seats and Seat Belts -- SECURE
3. Airspeed -- 65 KIAS
4. Wing Flaps -- 20°.
5. Selected Field -- FLY OVER, noting terrain and obstructions, then retract flaps upon reaching a safe altitude and airspeed
6. Avionics Master Switch and Electrical Switches -- OFF
7. Wing Flaps -- 30° (on final approach)
8. Airspeed -- 65 KIAS
9. Master Switch -- OFF
10. Doors -- UNLATCH PRIOR TO TOUCHDOWN
11. Touchdown -- SLIGHTLY TAIL LOW
12. Ignition Switch -- OFF
13. Brakes -- APPLY HEAVILY

FIRES

DURING START ON THE GROUND

1. **Ignition Switch -- START**
Continue Cranking to get a start which would suck the flames and accumulated fuel into the engine.

If engine starts:

2. **Power -- 1800 RPM** for a few minutes
3. **Engine -- SHUTDOWN** and inspect for damage

If engine fails to start:

- 4. Throttle - - FULL OPEN**
- 5. Mixture -- IDLE CUT OFF**
- 6. Cranking -- CONTINUE**
- 7. Fuel Shutoff Valve -- OFF (Pull Full Out)**
- 8. Auxiliary Fuel Pump Switch -- OFF**
- 9. Fire Extinguisher -- ACTIVATE**
- 10. Engine -- SECURE**
- 11. Master Switch -- OFF**
- 12. Ignition Switch -- OFF**
- 13. Parking Brake -- RELEASE**
- 14. Airplane -- EVACUATE**
- 15. Fire -- EXTINGUISH** using fire extinguisher, wool blanket, or dirt
- 16. Fire Damage -- INSPECT**

ENGINE FIRE IN FLIGHT

- 1. Mixture -- IDLE CUT OFF**
- 2. Fuel Shutoff Valve -- Pull Out (OFF)**
- 3. Auxiliary Fuel Pump Switch -- OFF**
- 4. Master Switch -- OFF**
- 5. Cabin Heat and Air -- OFF** (except overhead vents)
- 6. Airspeed -- 100 KIAS** (If fire is not extinguished, increase glide speed to find an airspeed - within airspeed limitations - which will provide an incombustible mixture)
- 7. Forced Landing -- EXECUTE**

ELECTRICAL FIRE IN FLIGHT

- 1. Master Switch -- OFF**
- 2. Vents, Cabin Air, Heat -- CLOSED**

- 3. Fire Extinguisher -- ACTIVATE**
4. Avionics Master Switch -- OFF
5. All Other Switches (except ignition switch) -- OFF
6. Vents/Cabin Air/Heat -- OPEN when it is ascertained that fire is completely extinguished
7. Master Switch -- ON
8. Circuit Breakers -- CHECK for faulty circuit, do not reset
9. Radio Switches -- OFF
10. Avionics Master Switch -- ON
11. Radio/Electrical Switches -- ON one at a time, with delay after each until short circuit is localized

CABIN FIRE

- 1. Master Switch -- OFF.**
- 2. Vents/Cabin Air/Heat -- CLOSED (to avoid drafts)**
- 3. Fire Extinguisher -- ACTIVATE**
4. Vents/Cabin Air/Heat -- Open when it is ascertained that fire is completely extinguished
5. Land the airplane as soon as possible to inspect for damage.

WING FIRE

- 1. Landing&Taxi Light Switches -- OFF**
- 2. Navigation Light Switch -- OFF**
- 3. Strobe Light Switch -- OFF**
- 4. Pitot Heat Switch -- OFF**

INADVERTENT ICING ENCOUNTER

1. Turn pitot heat switch ON
2. Turn back or change altitude to obtain an outside air temperature that is less conducive to icing
3. Pull cabin heat control full out and open defroster outlets

LOW VOLTAGE ANNUNCIATOR (VOLTS) ILLUMINATES DURING FLIGHT (Ammeter Indicates Discharge)

1. Avionics Master Switch -- OFF
2. Alternator Circuit Breaker (ALT FLD) -- CHECK IN
3. Master Switch -- OFF (both sides)
4. Master Switch -- ON
5. Low Voltage Annunciator (VOLTS) -- CHECK OFF
6. Avionics Master Switch -- ON
7. If low voltage annunciator (VOLTS) illuminates again:
Alternator -- OFF
8. Nonessential Radio and Electrical Equipment -- OFF
9. Flight -- TERMINATE as soon as practical