

C-172 Emergency Procedures

Engine Failure-Takeoff

Airspeed Maintain Safe Land Straight Ahead
If Sufficient altitude has been gained attempt to restart:
 Airspeed 80 Best Glide
 Fuel Selector Switch Tanks
Mixture Rich
 Carburetor Heat On
 Magnetos Both
 Primer In/Locked
*If power is **not** restored, proceed with **POWER OFF LANDING***

Engine Failure-Flight

Fuel Selector Switch Tanks
Mixture Rich
 Carburetor Heat On
 Magnetos Both
 Primer In/Locked
 Engine Gauges Check
*If power is **not** restored proceed with **POWER OFF LANDING***
If power is restored:
 Carburetor Heat Off
 Land As Soon as Practical

Power Off Landing

Airspeed 80 MPH
 Place to Land Locate
 Passengers Prepare
If time and altitude permit:
 Transponder 7700
 Radios Transmit 121.5
 ELT On
When committed to landing:
 Throttle Idle
Mixture Idle Cut-Off
 Magnetos Off
 Master Switch Off
 Fuel Selector Off
 Belts/Shoulder Harness Secure
 Approach Speed 74 MPH

Engine Fire-Start

Starter Continue Cranking
If engine starts:
 Power 1,700 RPM
 Engine Shutdown and Have Inspected
If engine does not start:
 Starter Continue Cranking
Mixture Idle Cut-Off
 Throttle Full Open
 Fuel Selector Off
 Magnetos Off
 Master Switch Off

If fire continues;
EVACUATE AIRCRAFT and extinguish fire

Engine Fire-Flight

Fuel Selector Off
 Throttle Idle
Mixture Idle Cut-Off
 Heater/Defroster Off
If fire continues, proceed with:
EMERGENCY DESCENT, Line 3

If fire appears out, proceed with:
POWER OFF LANDING

Electrical Fire

Batt/Alt Master Switch Off
 Radio Master Off
 Fresh Air Vents Open
 Heat/Defroster Off
If fire appears out and electrical power is necessary:
 Batt/Alt Master Switch On
 Circuit Breakers DO NOT RESET
 Radio/Electrical Equip--ON one at a time
 Land As Soon as Practical

Emergency Descent

1. Throttle Idle
2. **Mixture Rich**
3. Bank 30° – 45°
4. Rollout At 130 MPH
 or at pattern altitude
 Proceed with **POWER OFF LANDING**

Carburetor Icing

Carburetor Heat On
Mixture Adjust for Smoothness

Engine Roughness

Carburetor Heat On
If roughness continues after one min:
 Carburetor Heat Off
Mixture Adjust for Smoothness
 Fuel Selector Switch Tanks
 Engine Gauges Check
 Magneto Switch “L” then “R”
 then “BOTH”

If operation is satisfactory on either one, continue on that magneto, at reduced power and full “RICH” mixture, to nearest airport.

Prepare for **POWER OFF LANDING**

Loss of Oil Pressure

Engine Power Reduce
 Oil Temp Monitor
 Land As Soon as Practical
 Prepare for **POWER OFF LANDING**

High Oil Temperature

Mixture Rich
 Throttle Reduce
 Oil Pressure Monitor
 Oil Temp Monitor
If temp does not go down, or continues to rise:
 Land As Soon as Practical
 Prepare for **POWER OFF LANDING**

Electrical Failure

LOW VOLTAGE light illuminated:
 Ammeter Check Amps 0
 ALT Switch Off
 Electrical Load Reduce
 ALT Circuit Breaker Check/Reset
 ALT Switch On

Power not restored:
 ALT Switch Off
 Electrical Load Reduce Load
 Land As Soon as Practical

Electrical Overload

BATT Master Switch Off
 ALT Switch On

If Amps are reduced:

Electrical Load Reduce
 Land As Soon As Practical
If Amps are not reduced:
 ALT Switch Off
 BATT Switch As Required
 Land As Soon as Practical

Spin Recovery

Throttle Idle
 Ailerons Neutral
 Rudder FULL OPPOSITE
 (to the direction of rotation)
 Yoke FULL FORWARD
 Rudder NEUTRAL
 (when rotation stops)
 Yoke AS REQUIRED
 Throttle AS REQUIRED

