

**Emergency Procedures Cessna 172**

**ENGINE FIRE DURING START**

- 1. Cranking.....CONTINUE  
**IF ENGINE STARTS**
- 2. Power ..... 1700 RPM (2 minutes)
- 3. Engine ..... SHUTDOWN  
**IF ENGINE FAILS TO START**
- 2. Throttle.....FULLY OPEN
- 3. Mixture.....CUT-OFF
- 4. Cranking.....CONTINUE
- 5. Fire extinguisher ..... OBTAIN
- 6. Master Switch ..... OFF
- 7. Ignition Switch..... OFF
- 8. Fuel Selector ..... OFF
- 9. Fire ..... EXTINGUISH

**ENGINE FAILURE ON TAKEOFF ROLL**

- 1. Throttle .....IDLE
- 2. Brakes..... APPLY
- 3. Flaps ..... UP
- 4. Mixture.....CUT-OFF
- 5. Ignitions Switch ..... OFF
- 6. Master Switch ..... OFF

**ENGINE FAILURE AFTER TAKEOFF**

- 1. Airspeed ..... **65 KIAS (flaps up)**  
**60 KIAS (flaps down)**
- 2. Mixture.....CUT-OFF
- 3. Fuel Selector ..... OFF
- 4. Ignition Switch..... OFF
- 5. Flaps ..... AS REQUIRED
- 6. Master Switch .....OFF (prior touch)

**ENGINE FAILURE IN FLIGHT**

- 1. Airspeed .....**65 KIAS**
- 2. Carburetor Heat ..... ON
- 3. Fuel Shutoff Valve .....**BOTH**
- 4. Mixture..... RICH
- 5. Ignition Switch..... BOTH \*
- 6. Primer..... IN, LOCKED  
(\* START if propeller stopped)

**HIGH OIL TEMPERATURE**

- 1. Oil Pressure..... MONITOR  
*If Oil Press is low, expect Engine Failure.*
- 2. Use MINIMUM POWER
- 3. Prepare FORCED LANDING

**LOW OIL PRESSURE**

- 1. Oil Temperature ..... MONITOR  
*If Oil temperature remains normal, suspect Oil Pressure Indicator Failure*
- 2. Land.....ASAP  
*If Oil temp High or Rising, Engine failure is imminent.*
- 2. Use MINIMUM POWER
- 3. Prepare FORCED LANDING

**FORCED LANDING WITHOUT POWER**

- 1 Airspeed ..... 65(clean) 60(with flaps)
- 2. Mixture..... CUT-OFF
- 3. Fuel Selector.....OFF
- 4. Ignition Switch.....OFF
- 5. Flaps ..... AS REQUIRED (30° recommended)  
**PRIOR TOUCHDOWN**
- 6. Master Switch..... OFF
- 7. Doors ..... UNLATCH  
**AFTER TOUCHDOWN**
- 8. Brakes..... APPLY FULLY

**PRECAUTIONARY LANDING**

- 1. Airspeed .....60 KIAS
- 2. Flaps ..... 20 °
- 3. Over-fly selected field to inspect.
- 4. Avionics power ..... OFF
- 5. Electrical switches..... OFF  
**ON FINAL**
- 6. Flaps ..... 30 °
- 7. Airspeed .....60 KIAS
- 8. Master Switch..... OFF  
**PRIOR TOUCHDOWN**
- 9. Doors ..... UNLATCH  
**AFTER TOUCHDOWN**
- 10. Ignition Switch..... OFF
- 11. Brakes..... APPLY FULLY

**ENGINE FIRE IN FLIGHT**

- 1. Mixture..... CUT-OFF
- 2. Fuel Selector ..... OFF
- 3. Master Switch..... OFF
- 4. Cabin heat/Air ..... OFF(except root-vents)
- 5. Airspeed ..... **100 KIAS**  
*If fire does not extinguish, increase speed*
- 6. Forced Landing .....EXECUTE

## ELECTRICAL FIRE IN FLIGHT

1. Master Switch..... OFF
2. Avionics switch..... OFF
3. All Other Switches ..... OFF(except ignition)
4. Vents/Cabin air/heat..... CLOSED
5. Fire Extinguisher ..... ACTIVATE
6. Cabin ..... VENTILATE

## CABIN FIRE

1. Master Switch..... OFF
2. Vents/ Cabin air/heat.....CLOSED
3. Fire Extinguisher ..... ACTIVATE
4. Cabin ..... Ventilate
5. Land ..... ASAP

## WING FIRE

1. External Light switches ..... OFF
  2. Pitot Heat Switch ..... OFF
- Perform side slip to keep flames away from fuel tanks, land ASAP without using flaps.*

## HIGH AMMETER (Full Scale)

1. Alternator ..... OFF
2. Alternator CB..... PULL
3. Nonessential equipment..... OFF
4. Land ..... ASAP

## LOW-VOLT LIGHT ILLUMINATED

*May be normal during low Rpm conditions, in this case, increase Rpm. In all other cases:*

1. Avionics switch..... OFF
2. Alternator CB.....CHECK IN
3. Master and Alternator Switch..... OFF
4. Master and Alternator Switch.....ON
5. Low Voltage Light..... CHECK OUT
6. Avionics swicth.....ON

*If Low Voltage Light illuminates again:*

7. Alternator ..... OFF
8. Nonessential equipment..... OFF
9. Land ..... ASAP

## LANDING WITH A FLAT MAIN TIRE

1. Flaps ..... AS REQUIRED
2. Approach..... NORMAL
3. Touchdown .....GOOD Tire first

*Hold airplane off flat tire as long as possible with ailerons.*

## SPIN RECOVERY

1. Throttle..... IDLE
2. Ailerons ..... NEUTRAL
3. Rudder..... FULLY OPPOSITE, until Rotation stops
4. Control Wheel.....BRISKLY FORWARD until Rotation stops.

### After Rotation Stops

5. Rudder..... NEUTRAL
6. SMOOTHLY RECOVER FROM DIVE

## DITCHING

1. Radio ..... Transmit MAYDAY on 121.5, .....give location and intentions, Squawk 7700
2. Heavy Objects ..... Secure or jettison

### APPROACH

High Winds .....INTO THE WIND  
Light Winds.....PARALLEL TO SWELLS

### FINAL

4. Flaps ..... 30 °
5. Power.....300 FPM / 55 KIAS

### PRIOR TOUCHDOWN

6. Cabin Doors ..... UNLATCH

### TOUCHDOWN

7. Attitude..... 300 FPM descend
8. Face ..... Cushion

*at touchdown with folded coat or seat cushion*

### EVACUATION

9. Aircraft.....Evacuate  
*If unable to open doors, open windows to flood cabin and then open doors.*
10. Life Vest and Raft.....INFLATE AFTER LEAVING THE AIRCRAFT

## Glide Distance at 65 KIAS

