

## C 172 Emergency Procedures

### Engine Failure After Takeoff

1. Airspeed .....65 KIAS
2. Mixture .....IDLE CUTOFF
3. Fuel Valve ..... OFF
4. Ignition Switch ..... OFF
5. Doors.....OPEN

### Engine Failure During Flight

1. Airspeed .....65 KIAS [FLAPS UP]  
.....60 KIAS [FLAPS DOWN]
2. Carb Heat .....ON
3. Primer ..... IN & LOCKED
4. Fuel Valve .....ON
5. Mixture .....RICH
6. Ignition..... BOTH/START

### Emergency Landing Without Power

1. Airspeed .....65 KIAS [FLAPS UP]  
.....60 KIAS [FLAPS DOWN]
2. Mixture .....IDLE CUTOFF
3. Fuel Valve ..... OFF
4. Ignition Switch ..... OFF
5. Wing Flaps..... AS REQUIRED
6. Master Switch ..... OFF
7. Doors.....OPEN BEFORE TOUCHDOWN
8. Touchdown..... TAIL LOW
9. Brakes.....APPLY HEAVILY

### Engine Fire in Flight

1. Mixture .....IDLE CUTOFF
2. Fuel Valve ..... OFF
3. Master Switch ..... OFF
4. Cabin Heat/Air ..... OFF
5. Airspeed100 KIAS OR AS REQ'D TO EXTINGUISH FIRE
6. Forced Landing..... EXECUTE

### Electrical Fire in Flight

1. Master/Avionics Switch ..... OFF
2. All Other Switches (Except Ignition) ..... OFF
3. Vents/Cabin Air/Heat ..... OFF
4. Fire Extinguisher .....ACTIVATE

### Over Voltage Light On

1. Avionics Switch ..... OFF
2. Master Switch ..... OFF
3. Master Switch .....ON
4. Light ..... OFF, IF ON
5. Terminate Flight

### Ammeter Discharge

1. Alternator ..... OFF
2. Electrical Load .....REDUCE
3. Flight..... TERMINATE ASAP

### Engine Fire on Ground

1. CONTINUE CRANKING TO START ENGINE
2. Engine Starts..... POWER 1700 for few minutes  
AND THEN SHUT DOWN

3. **No Start**..... SHUTDOWN  
..... THROTTLE FULL OPEN  
..... MIXTURE IDLE CUTOFF  
..... CONTINUE CRANKING

#### Engine Secure

- .....MASTER SWITCH OFF
- .....IGNITION OFF
- .....FUEL VALVE OFF
- ..... FIRE EXTINGUISH
- .....INSPECT FOR DAMAGE



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## Aviation

### Cessna 172 Checklist

## Pre-flight Cabin Inspection

1. Documents.....A.R.R.O.W.S.
2. Control Lock.....REMOVE
3. Ignition Switch.....OFF
4. Avionics Switch.....OFF
5. Master Switch.....ON
6. Flaps.....DOWN
7. Fuel Quantity.....CHECK
8. Master Switch.....OFF
9. Fuel Valve.....ON BOTH

## Engine Start

1. Pre-flight.....COMPLETE
2. Seats, Belts, Harnesses.....ON
3. Fuel Shutoff Valve.....BOTH
4. Avionics Switch.....OFF
5. Electrical Equipment.....OFF
6. Circuit Breakers.....CHECK IN
7. Brakes.....TEST/SET

## Starting Engine

1. Mixture.....RICH
2. Carb Heat.....COLD
3. Master Switch.....ON
4. Beacon Light.....ON
5. Prime.....AS REQUIRED
6. Throttle.....OPEN 1/8"
7. Prop Area.....CLEAR
8. Ignition.....START
9. Oil Pressure.....CHK
10. Avionics Switch.....ON
11. Radio(s).....ON/SET
12. Transponder.....ON/ALT
13. Wing Flaps.....UP
14. Mixture.....LEAN

## Before Takeoff

1. Doors.....CLOSED/LATCHED
2. Brakes.....ON
3. Flight Controls.....FREE & CORRECT
4. Flight Instruments.....SET
5. Fuel Valve.....ON
6. Mixture.....RICH
7. Trim.....SET FOR TAKEOFF
8. Throttle.....1700 RPM
  - Mags.....125 DROP / 50 DIFF
  - Carb Heat.....CHK
  - Engine Instr.....CHK
  - Ammeter.....CHK
  - Suction.....CHK
  - Idle.....CHK
9. Throttle.....BELOW 1000 RPM
10. Radios.....SET
11. Transponder.....ON ALT
12. Lights.....ON
13. Throttle Friction Lock.....ADJUST

## Normal Takeoff

1. Wing Flaps.....0°
2. Carb Heat.....COLD
3. Throttle.....FULL OPEN
4. Elevator.....ROTATE 55 KIAS
5. Climb Speed.....74 - 80 KIAS

## Enroute Climb

1. Airspeed.....74 - 85 KIAS

## Cruise

1. Power.....2000 - 2700 RPM
2. Elevator.....TRIM
3. Mixture.....LEAN

## Before Landing

1. Seats, Belts, Harnesses.....ADJUST
2. Mixture.....RICH [CHK DENSITY ALT]
3. Radio(s).....SET
4. Landing Light.....ON
5. Carb Heat.....ON  
[Any significant reduction of power]

## Landing

1. Final Approach Airspeed.....60 KIAS
2. Flaps.....FULL
3. Touchdown Airspeed.....Slowest Possible
4. Touchdown.....MAINS FIRST
5. Landing Roll.....LOWER NOSE GENTLY
6. Braking.....MINIMUM REQUIRED

## Post Landing

1. Transponder.....Stays on ALT
2. Wing Flaps.....UP
3. Carb Heat.....COLD
4. Lights.....STROBES & LANDING OFF
5. TRIM.....RESET
6. MIXTURE.....LEAN WHEN REQUIRED

## Securing Aircraft

1. Brakes.....ON
2. Transponder.....OFF
3. Avionics Switch.....OFF
4. Ignition Grounding.....CHK
5. Mixture Lean.....1in., 1700 RPM 15 SEC.
6. 1000 RPM Mixture.....IDLE/CUT OFF
7. Ignition.....OFF/KEYS OUT
8. Master Switch.....OFF
9. Beacon Light.....OFF
10. Control Lock.INSTALL (Fuel selector valve left or right if sloped surface)