

## **\*EMERGENCY PROCEDURES\***

## **CESSNA MODEL 172**

### **ENGINE FAILURE - IMMEDIATELY AFTER TAKEOFF**

1. Airspeed - 80 mph
2. Mixture - IDLE CUT-OFF
3. Fuel Shutoff Valve - OFF
4. Ignition Switch - OFF
5. Flaps - AS REQUIRED
6. Master Switch - OFF

### **DURING FLIGHT**

1. Airspeed - 80 mph
2. Primer - IN and LOCKED
3. Ignition Switch - BOTH (or start if propeller is stopped)
4. Carburetor Heat - ON
5. Mixture - RICH
6. Fuel Shutoff Valve - ON

### **EMERGENCY LANDINGS WITHOUT ENGINE POWER**

1. Airspeed - 80 mph (Flaps UP)
2. Radio - REPORT POSITION on 121.5 or last frequency
3. Transponder - 7700
4. Mixture - IDLE CUT-OFF
5. Fuel Shutoff Valve - OFF
6. Ignition Switch - OFF
7. Flaps - AS REQUIRED
8. Master Switch - OFF PRIOR TO TOUCHDOWN
9. Doors - UNLATCH PRIOR TO TOUCHDOWN
10. Touchdown - SLIGHTLY TAIL LOW
11. Brakes - APPLY HEAVILY

### **PRECAUTIONARY LANDING WITH ENGINE POWER**

1. Airspeed - 80 mph
2. Radio - REPORT POSITION on 121.5 or last frequency
3. Transponder - 7700
4. Flaps - 20 DEGREES
5. Select Field - FLY OVER, noting terrain & obstructions, then retract flaps upon reaching a safe altitude and airspeed.
6. Radios and Electrical Switches - OFF
7. Flaps - 40 DEGREES (on final approach)
8. Airspeed - 65-75 mph
9. Master Switch - OFF
10. Doors UNLATCHED PRIOR TO TOUCHDOWN
11. Touchdown - SLIGHTLY TAIL LOW
12. Ignition Switch - OFF
13. Brakes - APPLY HEAVILY

This is not an FAA Approved Checklist and is to be used for General Purposes Only

### **BEFORE STARTING ENGINE**

1. Seats, Belts, Shoulder Harnesses, Doors - ADJUST and LOCK
2. Fuel Shutoff Valve - ON
3. Radios, Electrical Equipment - OFF
4. Brakes - TEST & SET
5. Circuit Breakers -  IN

### **STARTING ENGINE - NORMAL**

Note: Hot Engine, Start Skip Prime

1. Mixture - RICH
2. Carburetor Heat - COLD
3. Prime - AS REQUIRED
4. Throttle - OPEN 1/2 INCH
5. Propeller Area - "CLEAR!"
6. Master Switch - ON
7. Rotating Beacon - ON
8. Ignition Switch - START (release when engine starts)
9. Throttle - 1000 RPM or less for warm up
10. Oil Pressure -  (green)

### **AFTER STARTING**

1. Lights - As Required, No Strobes On Ground
2. Flaps - UP
3. Radios - ON/SET
4. ATIS (Ann Arbor, 134.55) - COPY
5. Transponder - SBY, 1200
6. Mixture - LEAN
7. Brakes - TEST
8. Ground Control (Ann Arbor, 121.6) - Contact

### **BEFORE TAKEOFF**

1. Cabin Doors and windows - CLOSED and LOCKED
  2. Flight Controls - FREE and CORRECT
  3. Flight Instruments - SET
  4. Fuel Shutoff Valve - ON
  5. Elevator Trim - TAKEOFF
  6. Mixture - RICH or As Required
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**Before Takeoff Con't...**

7. Throttle - 1700 RPM
  - a. Magnetos - ✓
  - b. Carburetor Heat - ✓, then OFF
  - c. Engine Instruments - ✓
  - d. Ammeter - ✓
- E. Suction Gauge - ✓
8. Throttle - 1000 RPM
9. Throttle Friction Lock - ADJUST
10. Radios - SET, (Ann Arbor Tower, 120.3)
11. Transponder - SET then ALTI
12. Oil Temperature - ✓(green)
13. Flaps - SET, 0°
14. Lights - As Required
15. Tower - Contact

**BEFORE LANDING - GUMP ✓**

1. Seats, Belts, Shoulder Harnesses - ADJUST and LOCK
2. Mixture - RICH or as required
3. Landing Light - ON
4. Carb Heat - ON

**LANDING - NORMAL**

1. Airspeed - 70-80 mph (flaps up)
2. Flaps - AS DESIRED (below 100 mph)
3. Airspeed - 65-75 mph (flaps down)
4. Trim - ADJUST
5. Touchdown - MAIN WHEELS FIRST
6. Landing Roll - LOWER NOSE WHEEL GENTLY
7. Braking - MINIMUM REQUIRED

**TAKEOFF - NORMAL**

1. Throttle - FULL OPEN
2. Elevator Control - LIFT NOSE WHEEL at 60mph
3. Climb Speed - 85mph

**SHORT FIELD TAKEOFF**

1. Brakes - APPLY
2. Throttle - FULL OPEN
3. Brakes - RELEASE
4. Elevator Control - SLIGHTLY TAIL LOW
5. Climb Speed - 80 mph

**SHORT FIELD LANDING**

1. Airspeed - 65-75 mph
2. Flaps - 40 DEGREES (below 100 mph)
3. Airspeed - MAINTAIN 65 mph
4. Trim - ADJUST
5. Power - REDUCE to idle as obstacle is cleared.
6. Touchdown - MAIN WHEELS FIRST
7. Brakes - APPLY HEAVILY
8. Wing Flaps - RETRACT

**EN ROUTE CLIMB**

1. Airspeed - 80-90 mph
2. Throttle - FULL OPEN
3. Mixture - FULL RICH (below 3000' MSL)

**AFTER LANDING**

1. Flaps - UP
2. Carburetor Heat - COLD
3. Transponder - SBY
4. Strobes - OFF
5. Landing Light - As Required
6. Mixture - LEAN for Taxi
7. Ground Control - Contact (Ann Arbor, 121.6)

**CRUISE**

1. Power - 2200-2700 RPM (no more than 75% power)
2. Elevator Trim - ADJUST
3. Mixture - LEAN (above 3000' MSL)
4. Engine Instruments - CHECK
5. Landing Light - OFF

**IN RANGE, 10 Miles Out**

1. ATIS - COPY (Ann Arbor, 134.55)
2. Tower/CTAF - Contact (Ann Arbor, 120.3)

**SECURING AIRPLANE**

1. Throttle - IDLE, 1000 RPM
2. Radios, Electrical Equipment - OFF (except Beacon)
3. Mixture - IDLE CUT-OFF
4. Beacon - OFF
5. Ignition Switch - OFF, Key Out
6. Master Switch - OFF
7. Control Lock - INSTALL
8. Chock & Tie Down Aircraft

**DESCENT**

1. Power - AS DESIRED within Green Arc
2. Mixture - ENRICH as required