EMERGENCY PROCEDURES

Cessna: C182R
CVD: 1 Dec 15 (GPS Equipped)

Bold-faced type are immediate action items which should be committed to memory.

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 .....
75 KIAS (Flaps Up)
70 KIAS (Flaps Down)
2. Mixture..... Idle Cut Off
3. Fuel Selector.....OFF
4. Ignition.....OFF
5. Wing Flaps.....As Required
(Full Recommended)
6. Master Switch .....OFF

Engine Failure During Flight (Restart)
1. Airspeed ..... 75 KIAS
2. Carb Heat.....On
3. Fuel Selector ..... Both
4. Mixture..... Rich
5. Ignition..... Both
(START if propeller is stopped)
6. Primer ..... In & Locked

Forced Landing w/o Engine Power
1. Seats, Belt, Harness.SECURE
2. Airspeed ...75 KIAS (Flaps Up)
70 KIAS (Flaps Down)
3. Mixture.....Idle Cut Off
4. Fuel Selector .....OFF
5. Ignition.....OFF
6. Wing Flaps .....As Required
…….(Full Recommended)
7. Master Switch.....OFF
8. Doors.
…….Unlatch prior to Touchdown
9. Touchdown...Slightly Tail Low
10. Brakes.....…….Apply Heavily

Precautionary Landing With Engine Power
1. Seats, Belt, Harness.SECURE
2. Airspeed .....75 KIAS
3. Wing Flaps ..... 20°
4. Select Field
…….Perform Fly Over Inspection
5. Electrical Switches .....OFF
6. Flaps....Full on Final Approach
7. Airspeed .....70 KIAS
8. Avionics & Master Switches.
……..OFF
9. Doors
…Unlatched Prior To Touchdown
10. Touchdown..Slightly Tail Low
11. Ignition Switch.....OFF
12. Brakes.....Apply Heavily

Engine Fire During Start
1. Continue Cranking Engine
2. If Engine Starts: .....Power
1700 RPM for a few minutes
3. Engine
……..Shutdown and Inspect

If Engine Fails to Start:
4. Throttle .....Full Open
5. Mixture.....Idle Cut Off
6. Cranking.....Continue
7. Fire Extinguisher.....Obtain
8. Master/Ignition/Fuel.....OFF
9. Fire.....Extinguish
10. Fire Damage.....Inspect

Engine Fire in Flight
1. Mixture .....Idle Cut Off
2. Fuel Selector.....OFF
3. Master Switch.....OFF
4. Cabin Heat & Air.....OFF
……(Except Overhead Vents)
5. Airspeed..... 100 KIAS
(If fire is not extinguished, increase glide speed to find an airspeed which will provide an incombustible mixture.)
6. Forced Landing w/o Engine Power..... Execute

Electrical Fire in Flight
1. Master Switch.....OFF
…….(Leave Ignition On)
2. Vents/Cabin Air/Heat.Closed
3. Fire Extinguisher.....Activate

Warning
After discharging an extinguisher within a closed cabin, ventilate the cabin.

4. Avionics Power Switch..... OFF
5. All Other Switches (Except Ignition) ..... OFF
6. Vents/Cabin Air/Heat …Open
When it is ascertained that fire is completely extinguished.

If fire appears out and electrical power is necessary for continuance of flight:
7. Master Switch..... ON
8. Circuit Breakers .....Check for Faulty circuit (Do Not Reset)
9. Radio Switches.....OFF
10. Avionics Power Switch.....ON
11. Radio/Electrical Switches.ON
one at a time w/ delay after each until short is localized

Cabin Fire
1. Master Switch.....OFF
…….(Leave Ignition ON)
2. Vents/Cabin Air/Heat.Closed
3. Fire Extinguisher.....Activate

Warning
After discharging an extinguisher within a closed cabin, ventilate the cabin.

4. Land ……As soon as possible and inspect damage.

Wing Fire
1. Navigation Lights.....OFF
2. Strobe Lights.....OFF
3. Pitot Heat .....OFF
4. Landing/Taxi Lights .....OFF

Note
Sideslip to keep flames away from the fuel tank and cabin, and land as soon as possible using flaps only as required for final approach and touchdown.

Icing

1. Pitot Heat.....On
2. Turn back or change altitude to obtain an outside air temp that is less conducive to icing.
3. Pull cabin heat control to full out and rotate defroster control clockwise to obtain maximum defroster airflow.
4. Increase Engine Speed to minimize ice build-up on propeller blades
5. Watch for signs of carburetor air filter ice and apply carburetor heat as required. An unexplained loss of manifold pressure could be caused by carburetor ice or air intake filter ice. Lean the mixture if carburetor heat is used continuously.
6. Plan a landing at the nearest airport. With an extremely rapid ice build-up, select a suitable "off airport" landing site.
7. With ice accumulation of ¼ inch or more on the wing leading edges, be prepared for significantly higher stall speed.
8. Leave wing flaps retracted. With a severe ice build-up on the horizontal tail, the change in wing wake airflow direction caused by wing flap extension could result in a loss of elevator effectiveness.
9. Open left window and if practical scrape ice from a portion of the windshield for visibility in landing approach.
10. Perform landing approach using a forward slip, if necessary, for, improved visibility.
11. Approach at 80 to 90 KIAS depending upon the amount of accumulation.
12. Perform a landing in level Attitude

Ditching

1. Radio.....Transmit Mayday on 121.5 giving location and intentions and squawk 7700.
2. Heavy Objects ..... Secure or Jettison.
3. Passenger Seats ……. Most Upright position
4. Seats and Seatbelts …Secure
5. Flaps..... 20º to 40º
6. Power ..... Est. a 300 FPM descent at 65 KIAS.

Note

If no power is available, approach at 75 KIAS with flaps up or at 70 KIAS with 10º flaps.

7. Approach
   High winds, heavy seas
   ……Into the Wind.
   Light winds, heavy swells
   ……Parallel to swells.
8. Cabin Doors.....Unlatch
9. Touchdown.....Level attitude at established descent rate.
10. Face.....Cushion at touchdown with folded coat.
11. Airplane..... Evacuate through Cabin doors. If necessary, open window and flood cabin to equalize pressure so doors can be opened.
12. Life vests and raft .....Inflate

For all other Emergency Abnormal Procedures. See the POH Section 3.

Airspeeds for Emergency Ops

Engine Failure After Takeoff:
Wing Flaps Up ------ 75 KIAS
Wing Flaps Down -- 70 KIAS

Maneuvering Speed:
3100 Lbs ---------- 111 KIAS
2600 Lbs –---------- 102 KIAS
2000 Lbs –---------- 88 KIAS

Maximum Glide:
3100 Lbs ----------– 76 KIAS
2600 Lbs ----------– 70 KIAS
2000 Lbs ----------– 61 KIAS

Precautionary Landing With Engine Power ----------– 70 KIAS

Landing Without Engine Power:
Wing Flaps Up –----- 75 KIAS
Wing Flaps Down –- 70 KIAS

This checklist is a guide to coordinate Pilot Operating Handbook and STC data applicable to this particular aircraft only. The applicable POH and STC installations remain the official documentation for this aircraft. The pilot in command is responsible for complying with all items in the POH and applicable STCs.