### **EMERGENCY PROCEDURES**

**Cessna: C172P** (Air Plains 180 HP) CVD: 13 May 21 (GPS)

## **Engine Failure During Takeoff Roll**

1.	Throttle	Idle
2.	Brakes	Apply
	Wing Flaps	
4.	Mixture	Idle Cut Off
5.	Ignition Switch	Off
	Master Switch	

## Engine Failure Immediately After Takeoff

	Wilkland
3.	Fuel SelectorOff (Push & Rotate)
4.	Ignition Off
5.	Wing Flaps As Required

### 6. Master Switch ..... Off

## Engine Failure During Flight (Restart)

2.	Carb HeatOn
3.	Fuel SelectorBoth
4.	MixtureRich
5.	IgnitionBoth
	(or START if propeller is
	stopped)

6. Primer..... In & Locked

1. Airspeed......75 KIAS

### **Forced Landing Without Engine Power**

1. Seats, Seat Belts, and Shoulder
HarnessesSet & Secure

2.	Airspeed	.70 KIAS (	Flaps Up)
	65	5 KIAS (Fla	ips Down)

3.	Mixture	Idle Cut Of
1	Fuel Selector	Off (Push & Rotate

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5.	IgnitionOff

6. Wing Flaps	As Required
(30° Recommende	ed)

7.	Master Switch	Of
8.	Doors	Unlatched

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	(Prior	To Touch	ndown)		
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- 9. Touchdown ..... Slightly Tail Low
- 10. Brakes ..... Apply Heavily

## Precautionary Landing With Engine Power

1. Seats, Seat	Belts, and Shoulder
Harnesses	Set & Secure

2.	Wing	Flaps		20
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9		-
3. Airspe	ed	65 KIAS

4. Select Field	Perform
Fly Over Inspectio	n

<ol><li>Avionics &amp; Electrical SwitchesO</li></ol>
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6.	Flaps30°	on Final	Approach
7	A irop o o d		GE IZIA C

7. Airspeed	KIAS
8. Master Switche	Off

9.	DoorsUnlatched
	(Prior To Touchdown)

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10. Touchdown	Slightly Tail Low
11. Ignition Switch	

12.	<b>Brakes</b>	 Appl	y 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 Switch	Off
9. Ignition Switch	Off
10. Fuel SelectorOff	(Push & Rotate)
11. Fire	Extinguish
12. Fire Damage	Inspect

(repair damage prior to next flight)

### **Engine Fire in Flight**

1.	Mixtureale C	ut Off
2.	Fuel SelectorOff (Push & F	Rotate)
3.	Master Switch	Off
4.	Cabin Heat & Air	Off
	(Except Overhead Vents	)

- 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. All Other Switches (Except Ignition) ...... Off
- 5. Avionics Power Switch......Off

6. All other switches (except ignition Switch)...Off

## If fire is extinguished & electrical power is necessary

- 7. Master Switch...... On8. Circuit Breakers..... Check for Faulty circuit (Do Not Reset)
- 9. Radio Switches......Óff
- 10. Avionics Power Switch.....On
- 11. Radio & Electrical Switches.....On (one at a time w/ delay after each to locate short).
- 12. Vents / Cabin Air / Heat ...... Open (when assured fire is extinguished)

### 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. Landing/Taxi Lights	Off
2. Pitot Heat	Off
3. Navigation Lights	Off
4. Strobe 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.
- Pull cabin heat control to full out and open defroster outlet to obtain maximum windshield defroster airflow.
- Open the throttle to increase engine speed and 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 in engine speed could be caused by carburetor ice or air intake filter ice. Lean the mixture if carb heat is used continuously.
- Plan a landing at the nearest airport. With an extremely rapid ice build-up, select a suitable "off airport" landing site.
- With ice accumulation of ¼ inch or more on the wing leading edges, be prepared for significantly higher stall speed.
- 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.
- 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. Seats, Seat Belts, and Shoulder Harnesses......Set & Secure
- 4. Approach:
  - High winds, heavy seas ...Into the Wind.
  - Light winds, heavy swells...... Parallel to swells.
- 5. Wing Flaps ...... 20° to 30°
- 6. Power..... Est. a 300 FPM descent at 55 KIAS.

### Note

If no power is available, approach at 70 KIAS with flaps up or at 65 KIAS with 10° flaps.

- 7. Cabin Doors ......Unlatch
- 8. Touchdown .....Level attitude at established descent rate.
- 9. Face......Cushion at touchdown with folded coat or seat cushion.
- Airplane ....... Evacuate through Cabin doors. If necessary, open window and flood cabin to equalize pressure so doors can be opened.
- 11. Life vests and raft .......... Inflate

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

## Airspeeds for Emergency Operations

### **Engine Failure After Takeoff:**

Wing Flaps Up -- 70 KIAS Wing Flaps Down -- 65 KIAS

### **Maneuvering Speed:**

2550 Lbs – 105 KIAS 2150 Lbs – 95 KIAS 1750 Lbs – 85 KIAS

### Maximum Glide:

2550 Lbs – 68 KIAS 2150 Lbs – 62 KIAS 1750 Lbs – 56 KIAS

## Precautionary Landing With Engine Power – 65 KIAS

### **Landing Without Engine Power:**

Wing Flaps Up – 70 KIAS Wing Flaps Down – 65 KIAS

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