

## C 172 ROCKET

Operator: Fliegergruppe Wien im österreichischen AERO- Club A -2540 Bad Vöslau Flugplatz [www.fliegergruppe.at](http://www.fliegergruppe.at)

OE-DLP: SN: FR 17200179

BJ. 1970

Motornummer: 808839-R Continental 10-360-D B 20

Prop Mc. Cauley D2A 34C 67

# OE-DLP

## CESSNA - FR 172 G- ROCKET



**PREFLIGHT  
INTERIOR+EXTERIOR**

Remove pitot cover  
Control lock removed and stowed  
Ignition OFF  
Electrical equipment OFF  
Master switch ON  
Check fuel gauges  
Pitot heat ON, check amp meter  
Check interior lights  
Exterior lights ON  
Check exterior lights  
Check Pitot heat temperature  
Exterior lights and pitot heat OFF  
Master switch OFF  
Fuel selector valve BOTH  
Fuel shutoff valve OPEN

**PREFLIGHT EXTERIOR****Left main gear**

Wheel fairing  
Tire condition, pressure, position  
mark  
Brake, hydraulic line

**Left fuselage**

Antennas  
Baggage door  
Static port

**Tail**

Elevator & rudder (freedom of  
movement, hinges)  
Trim - tab  
Position light

**Right fuselage**

Static port

**Right main gear**

Wheel fairing  
Tire condition, pressure, position  
mark  
Brake, hydraulic line

**Right wing**

Drain fuel sump  
Wing flap  
Aileron (freedom of movement,  
hinges, control linkage,  
security)  
Wing tip, position light  
Wing leading edge, top- and  
bottom surface  
Fuel filler cap

**Nose section**

Propeller surface  
Spinner  
Air inlets

**Nose gear**

Wheel fairing  
Tire condition, pressure, position  
mark

**Engine bay**

Engine oil level  
Drain fuel strainer

**Left wing**

Wing leading edge, top- and  
bottom surface  
Fuel filler cap  
Fuel vent line  
Pitot tube (cover removed)  
Stall warning  
Landing light  
Wing tip, position light  
Aileron (freedom of movement,  
hinges, control linkage,  
security)  
Wing flap  
Drain fuel sump

**Übernahmeprotokoll**

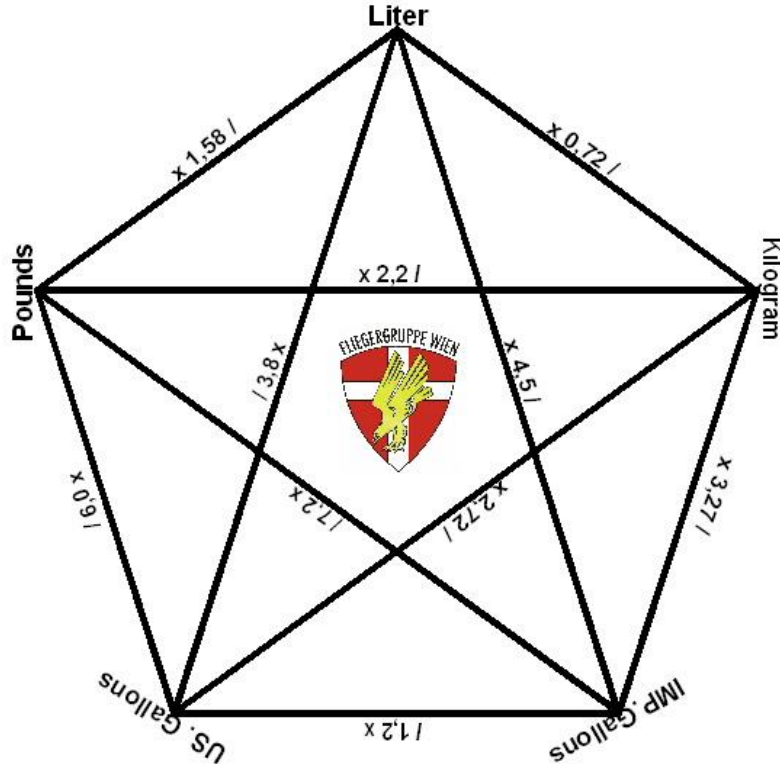
Ausgefüllt eventuelle Kommentare eingetragen

Wichtig nach Übergabe der Boardtasche das Übergabeprotokoll im Clubraum deponieren!!!

TPX CODES

**7500** HiJack  
**7600** COM  
**7700** MAYDAY

EMG FRQ  
**121,5** MHz



**ABFANGZEICHEN**

+ (Wenn in Funkkontakt) ATC informieren  
 + Auf Notfrequenz (121,500MHz) Verbindung aufnehmen  
 + Transponder 7700  
 + ANWEISUNGEN FOLGE LEISTEN

Abfangendes LFZ	Folgen Sie!	Antwort
<ul style="list-style-type: none"> <li>• Querruder AUF - AB</li> <li>• Blinkende Positionslichter</li> </ul>	<b>Folgen Sie!</b>	<ul style="list-style-type: none"> <li>• Querruder AUF - AB</li> <li>• Blinken mit Positionslichtern</li> </ul>
<ul style="list-style-type: none"> <li>• Hochziehen und abdrehen</li> </ul>	<b>Weiterfliegen</b>	<ul style="list-style-type: none"> <li>• Querruder AUF - AB</li> </ul>
<ul style="list-style-type: none"> <li>• Fahrwerk raus</li> <li>• Landescheinwerfer EIN</li> <li>• Überfliegen d. Flugplatzes</li> </ul>	<b>Folgen und hier landen!</b>	<ul style="list-style-type: none"> <li>• Fahrwerk raus</li> <li>• Landescheinwerfer EIN</li> <li>• Landen (wenn möglich)</li> </ul>

**LICHTSIGNALLE im Flug**

- Landung frei
- Zwecks Landung zurückkehren
- In Warterunde fliegen
- Flugplatz unbenutzbar, nicht landen
- Hier landen und zur Abstellfläche rollen (Landefreigabe abwarten)

**ROTE FEUERWERKSKÖRPER**

**JETZT NICHT LANDEN!**

Nächstes: Diese Schalttafel dient der besseren Übersicht und ersetzt weder die Flugvorbereitung noch eine allseitige

**ATC PLAN 10a BDFGLORVY / 10b S 18 PBN/B2D202S1 NAV/SBAS**

**CHECK BEFORE ENGINE START**

1	Preflight check .....	COMPLETED	1
2	Baggage and tow bar .....	SECURED	2
3	Doors .....	CLOSED + LOCKED	3
4	Seats and seatbelts .....	ADJUSTED	4
5	Parking brake .....	SET	5
6	Flight controls .....	CHECKED	6
7	Clock .....	SET	7
8	Altimeters .....	SET	8
9	All switches .....	OFF	9
10	Avionics Master .....	OFF	10
11	Avionics (4) .....	OFF	11
12	Circuit breakers.....	CHECKED	12
13	Engine counter reading .....	NOTED	13
14	Fuel selector valve.....	BOTH	14
15	Fuel shutoff valve .....	OPEN	15
16	Master switch .....	ON	16
17	Fuel quantity .....	CHECKED	17
18	Rotating beacon .....	ON	18
19	Mixture .....	RICH	19
20	Propeller .....	HIGH RPM	20
21	Primer .....	AS REQUIRED	21
22	Auxiliary fuel pump.....	LOW	22

**ENGINE START PROCEDURE**

Throttle .....	OPEN 2,5 cm (FF 2 GAL)
Propeller area .....	CLEAR
Starter .....	ENGAGE
Oil pressure .....	RISING
Throttle.....	1000 RPM
Auxiliary fuel pump.....	OFF

**CHECK AFTER ENGINE START**

- 1 Oil pressure ..... CHECKED
- 2 Auxiliary fuel pump..... CHECKED OFF
- 3 Engine instruments..... CHECKED
- 4 Primer ..... LOCKED
- 5 Avionics Master ..... ON
- 6 Remaining Avionics (4) ..... ON
- 7 Nav aids and frequencies ..... SET
- 8 GPS ..... AS REQUIRED
- 9 Alternator Masterswitch left side ON-OFF-ON Ammeter LOADING
- 10 Horizon and directional gyro ..... SET
- 11 Flaps ..... CHECKED FULL TRAVEL
- 12 Transponder ..... ALT (if required)

**DURING TAXI**

*Check brakes*  
*Check flight instruments*

**BEFORE TAKE OFF CHECK**

- 1 Parking brake ..... SET
- 2 Cabin doors + windows ..... CLOSED and LOCKED
- 3 Fuel selector valve..... BOTH
- 4 Flight controls..... CHECKED
- 5 Elevator trim ..... SET
- 6 Horizon, directional gyro, altimeters ..... RECHECKED
- 7 Flight instruments ..... CHECKED

**RUN UP PROCEDURE**

*Throttle ..... 1800 RPM*  
*Magnetos ..... checked max 50 RPM difference*  
*Propeller..... cycle once, then HIGH*

- 8 Engine Instruments ..... CHECKED
- 9 Ampere meter..... CHECKED
- 10 Suction gauge..... 4,6 – 5,4 in. Hg
- 11 Flaps ..... SET for TKOF
- 12 Pitot Heater ..... AS REQUIRED

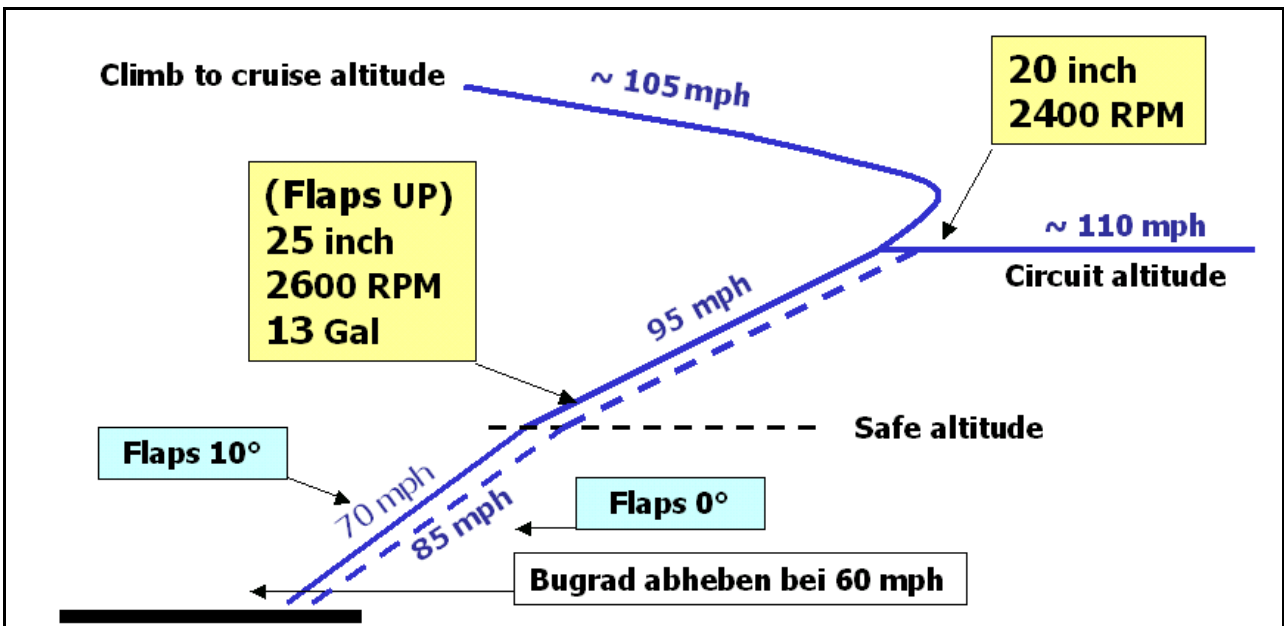
- |    |                     |          |
|----|---------------------|----------|
| 13 | Transponder .....   | ALT      |
| 14 | Parking brake ..... | RELEASED |

**LINE UP PROCEDURE**

Landing light..... on  
 Approach sector ..... clear  
 Runway..... identified  
 Gyro ..... check runway heading

**AFTER TAKE-OFF PROCEDURE**

After passing safe altitude:  
 Flaps..... up  
 Throttle ..... 25 inch  
 RPM ..... 2600 RPM  
 Mixture ..... 13 Gal  
 Landing light..... off



**CLIMB TO CRUISE CHECK**

- |   |                    |             |
|---|--------------------|-------------|
| 1 | Landing light..... | CHECKED OFF |
| 2 | Flaps .....        | CHECKED UP  |

**PERIODICALLY DURING CRUISE**

**Fuel Radio Engine Direction Altitude**

**DESCENT / APPROACH CHECK**

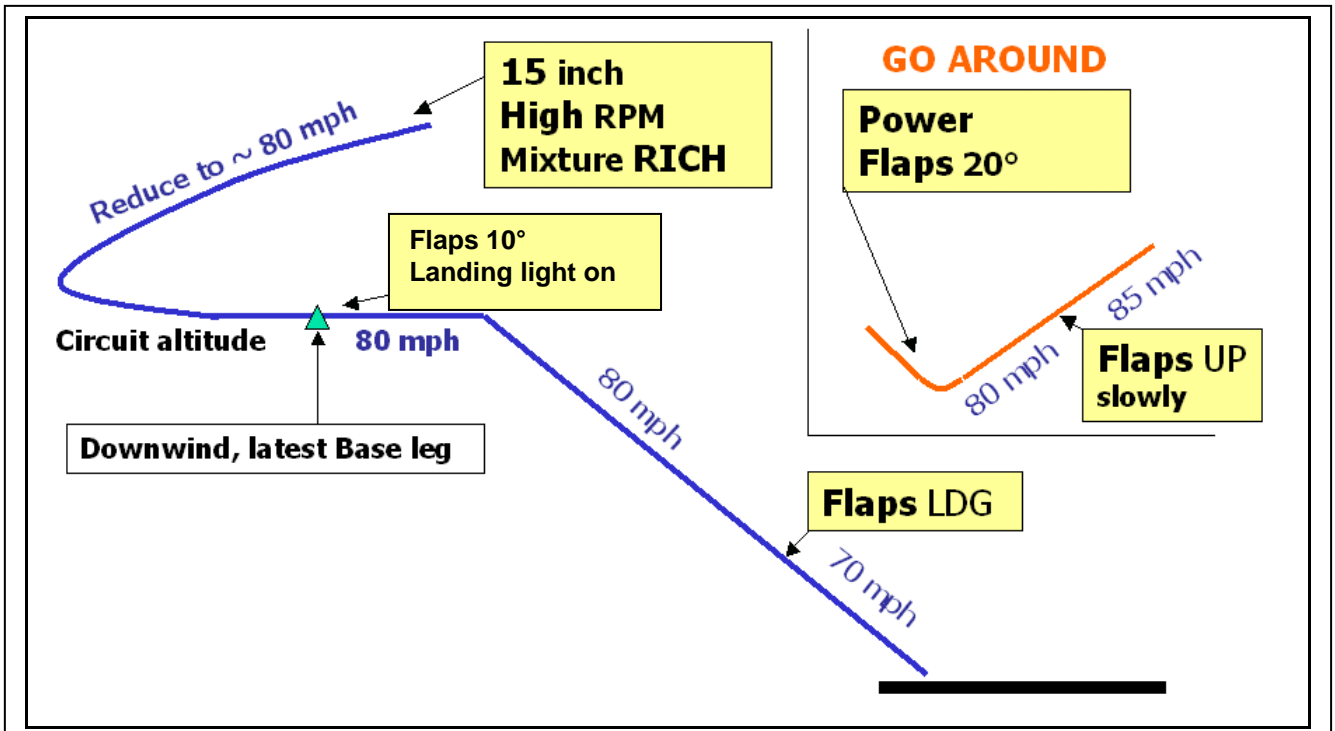
1	Landing data.....	RECEIVED
2	Altimeter .....	SET
3	COM / NAV .....	SET
4	Gyro .....	SET
5	Fuel selector valve.....	BOTH

**BEFORE LANDING PROCEDURE**

Throttle .....	15 inch
Propeller.....	2600 RPM
Mixture .....	rich
<i>Downwind, latest base leg:</i>	
Flaps.....	10°
Landing light.....	ON
<i>On final:</i>	
Flaps.....	as required
Propeller.....	high RPM

**GO AROUND PROCEDURE**

Propeller and throttle .....	FULL
Flaps.....	20°
<i>Then:</i>	
Flaps.....	slowly up
<i>Continue with take-off profile</i>	



**AFTER LANDING CHECK**

(when reaching taxi speed)

- |   |                           |             |
|---|---------------------------|-------------|
| 1 | Flaps .....               | UP          |
| 2 | Transponder .....         | SBY         |
| 3 | Pitot heat .....          | OFF         |
| 4 | Landing / Taxi light..... | AS REQUIRED |

**PARKING CHECK**

- |    |  |                 |
|----|--|-----------------|
| 1  | Parking brake .....                        | AS REQUIRED     |
| 2  | ELT.....                                   | 121,5 CHECKED   |
| 3  | GPS .....                                  | CHECK TRIP TIME |
| 4  | Avionics (4) .....                         | OFF             |
| 5  | Avionics Master .....                      | OFF             |
| 6  | Landing / Taxi light.....                  | OFF             |
| 7  | Ignition grounding (momentarily OFF) ..... | CHECKED         |
| 8  | Mixture .....                              | IDLE CUT OFF    |
| 9  | Ignition .....                             | OFF             |
| 10 | Rotating beacon .....                      | OFF             |
| 11 | Master switch .....                        | OFF             |
| 12 | Fuel shutoff valve.....                    | CLOSED          |
| 13 | Engine counter reading .....               | NOTED           |
| 14 | Control wheel lock.....                    | INSTALLED       |
| 15 | Pitot cover.....                           | INSTALLED       |



*Emergency Landing .....page 8*  
*Engine Fail .....page 8*  
*Engine Roughness.....page 9*  
*Low Oil Pressure .....page 9*  
*Engine Fire in Flight .....page 9*  
*Engine Fire on Ground ..... page 10*  
*Electrical Fire in Flight ..... page 10*  
*Excessive Electrical Charge ..... page 11*  
*Insufficient Electrical Charge ..... page 11*

**EMERGENCY LANDING**

- 1 Flaps .....UP
- 2 Airspeed .....85 mph
- 3 Mixture .....IDLE CUT OFF
- 4 Fuel shutoff valve..... CLOSED
- 5 All switches except Master..... OFF
- 6 Ignition ..... OFF
- 7 ATC .....MAYDAY CALL
- 8 Flaps .....AS REQUIRED
- 9 Master switch ..... OFF

Before Touchdown:

- 10 Cabin Doors..... UNLATCHED

**ENGINE FAIL**

- 11 Airspeed .....85 mph
- 12 Fuel quantity .....CHECKED
- 13 Fuel selector valve..... FULLER TANK
- 14 Mixture .....CHECKED
- 15 Fuel flow .....CHECKED
- 16 Auxiliary fuel pump .....ON if necessary
- 17 Primer .....FULL IN + LOCKED
- 18 Ignition ..... PROPER POSITION or START

If no success:

continue with EMERGENCY LANDING Checklist

**ENGINE ROUGHNESS**

- 1 Magnetos ..... CHECK LEFT and RIGHT
- 2 Better magneto ..... SELECT
- 3 Mixture ..... LEAN AS REQUIRED

If engine still rough:

- 4 Magnetos ..... BOTH
- 5 Mixture ..... RICH
  - Land ASAP

**LOW OIL PRESSURE**

- 1 Oil temperature ..... CHECK

If oil temperature normal:

- Land ASAP

If total loss of pressure and/or oil temperature high:

- 2 Power ..... REDUCE
  - Forced landing

**ENGINE FIRE IN FLIGHT**

- 1 Mixture ..... IDLE CUT OFF
- 2 Fuel shutoff valve ..... CLOSED
- 3 ATC ..... MAYDAY CALL
- 4 Airspeed ..... 120 MPH
- 5 Cabin heater and defroster ..... OFF

- Forced emergency landing:

- 6 Airspeed ..... 85 mph
- 7 Ignition ..... OFF
- 8 Flaps ..... AS REQUIRED
- 9 Master switch ..... OFF

Before Touchdown:

- 10 Cabin Doors ..... UNLATCHED

**ENGINE FIRE ON GROUND**

Crank engine

If engine starts:

- 1 Throttle..... 1700 RPM for several minutes
- 2 Engine .....SHUT DOWN
  - Discontinue operation

If engine does not start:

- Continue cranking
- 3 Throttle..... FULL OPEN
  - Call for fire assistance
- 4 Auxiliary fuel pump ..... OFF
- 5 Fuel shutoff valve ..... CLOSED
- 6 Mixture ..... IDLE CUT OFF
- 7 Ignition ..... OFF
- 8 Master switch ..... OFF
- 9 Parking brake ..... RELEASED

Evacuate - Extinguish

**ELECTRICAL FIRE IN FLIGHT**

- 1 Master switch ..... OFF
- 2 Cabin heat and ventilation ..... CLOSED
  - Land ASAP

If electrical power required  
execute "isolation procedure":

- 3 All switches (except ignition) ..... OFF
- 4 Circuit breakers ..... CHECKED
  - Leave a faulty circuit deactivated
- 5 Master Switch ..... ON
- 6 Select switches ON successively to isolate faulty circuit.....
  - Leave faulty circuit deactivated

When fire definitely extinguished:

- 7 Cabin heat and ventilation ..... AS REQUIRED

**EXCESSIVE ELECTRICAL CHARGE**

(more than 2 needle widths after 30 min. flight time)

- 1 Generator switch (right half of master) ..... OFF
- 2 Electrical load .....REDUCE NONESSENTIAL
  - Land ASAP

If necessary:

- 3 Generator .....ON for limited periods

During night before flaps and landing light required:

- 4 Generator ..... ON

**INSUFFICIENT ELECTRICAL CHARGE**

- 1 Generator switch (right half of master) ..... OFF
- 2 Electrical load .....REDUCE NONESSENTIAL
  - Land ASAP

**OPERATING SPEEDS**

	<b>Mph</b>	<b>Kt</b>
Best gliding angle (Flaps 0°)	85	74
Best angle of climb (V <sub>X</sub> )	70/85	61/74
Best rate of climb (V <sub>Y</sub> )	95	82
Cruising climb speed	105	91
Rotating speed	60	52
Max. flap speed (V <sub>FE</sub> )	100	87
Landing speed Flaps 0°	80	70
Landing speed Flaps 10°-40°	70	61
Stall speed (V <sub>S0</sub> )	53	46
Stall speed (V <sub>S1</sub> )	64	56
Max. cruising speed (V <sub>NO</sub> )	146	127
Never exceed speed (V <sub>NE</sub> )	185	160
Maneuvering speed (V <sub>A</sub> )	125	108
Max. turbulence speed	146	127

**POWER SETTING and CRUISING SPEED**

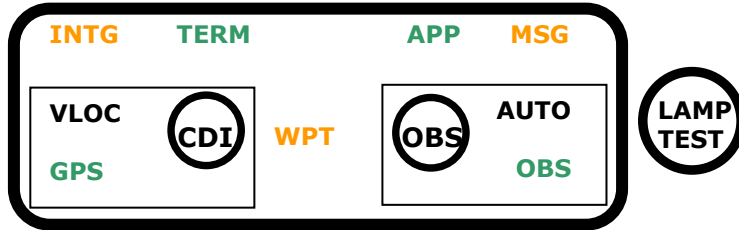
Press Alt	Cruise TAS (mph/kt)			65%		
	55%	65%	75%	RPM	MP	USG/hr
<b>2.500</b>	123/107	132/114	140/121	2.400	23	9,8
<b>5.000</b>	124/108	135/117	144/125	2.400	22,5	10,0
<b>7.500</b>	126/109	138/120		2.500	21	10,0
<b>10.000</b>	130/113	140/121		2.600	19,5	10,0
<b>Cons.</b>	8,6 G/hr	10 G/hr	11,4 G/hr			
<b>Endurance</b>	05:20 hrs	04:35 hrs	04:01 hrs			

**LIMITATIONS**

Max. TKOF RPM	2800 RPM
Max. cruise RPM	2600 RPM
Max. fuel on board	52 USG
Max. usable fuel	46 USG 125 kp

Max. TKOF weight	1157 kp
Empty weight	732 kp
Max. load incl. fuel	425 kp
Max. load with full tank	300 kp
Max. baggage weight	91 kp

### GPS ANNUNCIATOR



## TAKEOFF BRIEFING

# TAKEOFF BRIEFING

NORMAL START from RUNWAY.....

CROSS WIND COMPONENT.....KT FROM .....

ROTATE BY .....KT BEFORE / AFTER MID FIELD INDICATOR

INITIAL CLIMB .....KT UNTIL ..... FEET THEREAFTER .....KT

LANDING AREA ..... OBSTACLES ARE.....

EMERGENCY LANDING MAX BANK ANGLE 45° LEFT / RIGHT \_\_\_\_

### IN CASE OF EMERGENCY OR FIRE **BEFORE TAKEOFF**

1. POWER IDLE
2. BRAKES FULL APPLY
3. IDLE CUT OFF
4. FUEL VALVE OFF
5. IGNITION OFF
6. INFORM ATC
7. MASTER SWITCH OFF

### IN CASE OF EMERGENCY **AFTER TAKEOFF**

1. SPEED 70 KNOTS OR.....
2. MIXTURE; FUEL SELECTOR; IGNITION OFF
3. FLAPS DOWN
4. MASTER SWITCH OFF
5. DOORS UNLOCK