



**DEPARTAMENTO “SEGURIDAD OPERACIONAL”**  
**SUBDEPARTAMENTO “LICENCIAS”**  
**SECCIÓN EVALUACIONES**

**“CESSNA C-172M”**  
**“RENT FLY”**

**A.- Limitaciones de Operación**

1.- Limitaciones (Velocidades)

|                | MPH |
|----------------|-----|
| Va             | 112 |
| Vne            | 184 |
| Vno            | 147 |
| Vfe            | 98  |
| Vs             | 54  |
| Vso            | 47  |
| Vx             | 69  |
| Vy             | 81  |
| Vr             | 63  |
| Vapp (Flap DN) | 69  |
| Vplaneo        | 75  |
| Max Cross Wind | 15  |

2.- Combustible (U.S. GAL)

|                  |         |
|------------------|---------|
| Tipo a Utilizar  | 100/130 |
| Capacidad Total  | 43      |
| Capacidad Usable | 40      |

3.- Pesos (LBS)

|                 |       |
|-----------------|-------|
| Máximo TAKE-OFF | 2.300 |
| Máximo Equipaje | 120   |

4.- Motor (Potencia Máxima Continua)

| Limitaciones Operativas de Motor |       |
|----------------------------------|-------|
| Razón HP o BHP                   | 150   |
| Máximas RPM                      | 2.700 |
| RPM estáticas                    |       |
| Máximas                          | 2.700 |
| Mínimas                          | 2.200 |
| Temperatura de aceite (°F)       |       |
| Máxima                           | 245   |
| Mínima                           | 100   |
| Presión de aceite (PSI)          |       |
| Máxima                           | 100   |
| Mínima                           | 25    |

5.- Limites de maniobras (Cat. Normal)

| MANIOBRA        | MPH               |
|-----------------|-------------------|
| Spin (Flaps UP) | SLOW DECELERATION |
| Escarpados      | 109               |
| Ocho Flojo      | 121               |
| Chandela        | 121               |

## B.- Emergencies Procedures

### 1.- ENGINE FAILURE DURING TAKEOFF RUN

|                 |              |
|-----------------|--------------|
| Throttle        | IDLE         |
| Brakes          | APPLY        |
| Wing Flaps      | RETRACT      |
| Mixture         | IDLE CUT-OFF |
| Ignition Switch | OFF          |
| Master Switch   | OFF          |

### 2. - ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

|                     |  |
|---------------------|--|
| Airspeed            | 75 MPH (FLAPS UP)<br>70 MPH (FLAPS DN) |
| Mixture             | IDLE CUT-OFF                           |
| Fuel Selector Valve | OFF                                    |
| Ignition Switch     | OFF                                    |
| Wing Flaps          | AS REQUIRED                            |
| Master Switch       | OFF                                    |

### 3. - ENGINE FAILURE DURING FLIGHT

|                     |   |
|---------------------|---|
| Airspeed            | 75 MPH                                  |
| Carburetor Heat     | ON                                      |
| Fuel Selector Valve | BOTH                                    |
| Mixture             | RICH                                    |
| Ignition Switch     | BOTH (or START if propeller is stopped) |
| Primer              | IN and LOCKED                           |

#### 4. - FIRE DURING START ON GROUND

|                           |  |
|---------------------------|--|
| Cranking                  | <b>CONTINUE</b> , to get a start, which would suck the flames and accumulated fuel through the carburetor and into the engine. |
| If engine starts:         |  |
| Power                     | <b>1700</b> RPM for a few minutes.   |
| Engine                    | <b>SHUTDOWN</b> and inspect for damage.  |
| If engine fails to start: |  |
| Throttle                  | <b>FULL OPEN</b>   |
| Mixture                   | <b>IDLE CUT-OFF</b>  |
| Cranking                  | <b>CONTINUE</b>  |
| Fire Extinguisher         | <b>OBTAIN</b> (have ground attendants obtain if not installed)   |
| Engine                    | <b>SECURE</b>  |
| a. Master switch          | <b>OFF</b>   |
| b. Ignition switch        | <b>OFF</b>   |
| c. Fuel selector valve    | <b>OFF</b>   |
| Fire                      | <b>EXTINGUISH</b> using fire extinguisher, wool blanket or dirt.   |
| Fire Damage               | <b>INSPECT</b> repair damage or replace damaged components or wiring before conducting another flight.                         |

## 5. - ENGINE FIRE IN FLIGHT

|                     |   |
|---------------------|---|
| Mixture             | <b>IDLE CUT-OFF</b>   |
| Fuel Selector Valve | <b>OFF</b>  |
| Master Switch       | <b>OFF</b>  |
| Cabin Heat and Air  | <b>OFF</b> (except overhead vent)   |
| Airspeed            | <b>115 MPH</b> (if fire is not extinguished, increase glide speed to find an airspeed which will provide an incombustible mixture). |
| Forced Landing      | <b>EXECUTE</b> (as described in Emergency Landing without Engine Power).  |