



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

**“CESSNA C-172 N (CC-SOE)”  
“CLUB AÉREO DE OSORNO”**

**A.- Limitaciones de Operación**

**1.- Limitaciones (Velocidades)**

	<b>KIAS</b>
Va	<b>97</b>
Vne	<b>160</b>
Vno	<b>128</b>
Vfe	<b>85</b>
Vs	<b>41</b>
Vso	<b>33</b>
Vx	<b>56</b>
Vy	<b>76</b>
Vr	<b>55</b>
Vapp (Flap DN)	<b>55-65</b>
Vplaneo	<b>65</b>
Max Cross Wind	<b>15</b>

**2.- Combustible (U.S. GAL)**

Tipo a Utilizar	<b>100LL</b>
Capacidad Total	<b>52</b>
Capacidad Usable	<b>50</b>

**3.- Pesos (LBS)**

Máximo TAKE-OFF	<b>2300</b>
Máximo Equipaje	<b>120</b>
Peso Vacío	

**4.- Motor (Potencia Máxima Continua)**

<b>Limitaciones Operativas de Motor</b>	
Razón HP o BHP	<b>160</b>
Máximas RPM	<b>2700</b>
<b>RPM estáticas</b>	
Máximas	<b>2430</b>
Mínimas	<b>2300</b>
<b>Temperatura de aceite ( ° )</b>	
Máxima	<b>245</b>
Mínima	<b>100</b>
	<b>.</b>
<b>Presión de aceite (PSI)</b>	
Máxima	<b>115</b>
Mínima	<b>25</b>

**5. Límites de maniobras ( Cat Normal )**

<b>MANIOBRA</b>	<b>KIAS</b>
Spin (Flaps UP)	<b>Slow desaleration</b>
Escarpados	<b>95</b>
Ocho Flojo	<b>105</b>
Chandela	<b>105</b>

## **B.- Emergencies Procedures**

### **1.- ENGINE POWER LOSS DURING TAKEOFF (Not Airborne)**

Throttle	<b><u>IDLE</u></b>
Brakes	<b><u>APPLY</u></b>
Wing Flaps	<b><u>RETRACT</u></b>
Mixture	<b><u>IDLE CUT-OFF</u></b>
Ignition Switch	<b><u>OFF</u></b>
Master Switch	<b><u>OFF</u></b>

### **2. - ENGINE power loss during takeoff (IF Airborne)**

Airspeed	<b><u>65 KIAS (FLAPS UP)</u></b>
	<b><u>60 KIAS (FLAPS DOWN)</u></b>
Mixture	<b><u>IDLE CUT-OFF</u></b>
Fuel Shutoff Valves	<b><u>OFF</u></b>
Ignition Switch	<b><u>OFF</u></b>
Wing Flaps	<b><u>AS REQUIRED</u></b>
Master Switch	<b><u>OFF</u></b>

### **3. - ENGINE FAILURE DURING FLIGHT**

Airspeed	<b><u>65 KIAS</u></b>
Carburetor Heat	<b><u>ON</u></b>
Primer	<b><u>IN AND LOCKED</u></b>
Fuel Shutoff Valve	<b><u>BOTH</u></b>
Mixture	<b><u>RICH</u></b>
Ignition Switch	<b><u>BOTH (or START if propeller is stopped)</u></b>

#### 4. – ENGINE FIRE DURING START ON GROUND

Cranking **CONTINUE** to get a start, which would suck the flames and accumulated fuel through the carburetor and into the engine.

##### a.- If engine start:

**1700** RPM for a few minutes

Power **SHUTDOWN** and inspect for damage

Engine \_\_\_\_\_

##### b.- If engine fails to start:

Throttle **FULL OPEN**

Mixture **IDLE CUT-OFF**

Cranking **CONTINUE**

Fire Extinguisher **OBTAIN** (have ground attendants obtain if not installer)

Engine **SECURE**

Master switch **OFF**

Ignition switch **OFF**

Fuel Selector valve **OFF**

Fire **EXTINGUISH** using fire extinguisher, wool blaket or dirt.

Fire Damage **INSPECT** repair damage or replace damage components or wiring before conducting anther flight.

#### 5. - ENGINE FIRE IN FLIGHT

Mixture control **IDLE**

Fuel shutoff Valves **OFF**

Master Switch **OFF**

Cabin heat and Air **OFF** (except overhead vent)

Airspeed **100 KIAS** (if fire not extinguished, increase glide speed to find an airspeed will provide an incombustible mixture)

Forced Landing **EXECUTE** (as describe in Emergency Landing without Engine Power).