



DEPARTAMENTO “SEGURIDAD OPERACIONAL”  
SUBDEPARTAMENTO “LICENCIAS”

“CESSNA C172M”

“CC-CYG”

**A.- OPERATING LIMITATIONS**

**1.- Limitations Speed (MPH)**

Va	<b>112</b>
Vne	<b>182</b>
Vno	<b>145</b>
Vfe	<b>100</b>
Vs	<b>57</b>
Vso	<b>49</b>
Vx	<b>68</b>
Vy	<b>90</b>
Vr	<b>60</b>
Vapp (Flap DN)	<b>65 – 75</b>
Vglide	<b>80</b>
Max Cross Wind	<b>15</b>

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

Type to Use	<b>100/130</b>
Total Capacity	<b>42</b>
Usable Capacity	<b>38</b>

**3.- Weight (LBS)**

Maximum TAKE-OFF	<b>2300</b>
Maximum Baggage	<b>120</b>

**4.- Engine (Maximum Continuous Power)**

<b>Engine Operating Limitations</b>	
Reason HP o BHP	<b>150</b>
Maximum RPM	<b>2700</b>
<b>Static RPM</b>	
Maximum	<b>2370</b>
Minimum	<b>2270</b>
<b>Oil Temperature (°F)</b>	
Maximum	<b>245</b>
Minimum	<b>100</b>
<b>Oil Pressure (PSI)</b>	
Maximum	<b>100</b>
Minimum	<b>25</b>

**5.- Maneuvering Limits (Utility Cat.)**

<b>MANEUVER</b>	<b>MPH</b>
Spins	<b>SLOW DECCELERATON</b>
Stalls (Except Whip Stalls)	<b>SLOW DECCELERATON</b>
Steep Turns	<b>112</b>
Lazy Eights	<b>120</b>
Chandelles	<b>120</b>

**B.- EMERGENCY PROCEDURES FOR IMMEDIATE ACTION:**

**1.- ENGINE FAILURE DURING TAKEOFF RUN:**

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

**2. - ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF:**

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

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

Airspeed	<b>80 MPH</b>
Carburetor Heat	<b>ON</b>
Fuel Selector Valve	<b>BOTH</b>
Mixture	<b>RICH</b>
Ignition Switch	<b>BOTH (OR START IF PROPELLER IS STOPPED)</b>
Primer	<b>IN AND LOCKED</b>

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

Cranking **CONTINUE**

If engine starts:

Power **1700 RPM FOR A FEW MINUTES**

Engine **SHUTDOWN AND INSPECT FOR DAMAGE**

If engine fails to start:

Throttle **FULL OPEN**

Mixture **IDLE CUT-OFF**

Cranking **CONTINUE**

Fire Extinguisher **OBTAIN**

Engine **SECURE**

Master switch **OFF**

Ignition switch **OFF**

Fuel selector valve **OFF**

Fire **EXTINGUISH**

Fire Damage **INSPECT**

**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>
Airspeed	<b>120 MPH</b>
Forced Landing	<b>EXECUTE</b>