



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

**“CESSNA C172S”
CLUB AEREO LOS ANGELES
“CC-ALT” “CC-SLD”**

A.- OPERATING LIMITATIONS

1.- Limitations Speed (KIAS)

Va 2550	105
Vne	163
Vno	129
Vfe 10°	110
Vs	45
Vso	40
Vx	62
Vy	74
Vr	55
Vapp (Flap DN)	60 – 70
Vplaneo	70
Max Viento Cruzado	15

2.- Fuel (U.S. GAL)

Type to Use	100 LL
Total Capacity	56
Usable Capacity	53
Aceite QTS	
Maximo	8
Minimo	5

3.- Weight (LBS)

Maximum TAKE-OFF	2550
Maximum Baggage	120

4.- Engine (Maximum Continuous Power)

Engine Operating Limitation	
Reason HP o BHP	180
Maximum RPM	2700
Static RPM	
Maximum	2400
Minimum	2300
Oil Temperature (°F)	
Maximum	245°
Minimum	100°
Oil Pressure (PSI)	
Maximum	115
Minimum	20

5.- Maneuvering Limits (Utility Cat.)

MANEUVER	KIAS
Spins	NO
Stalls (Except Whip Stalls)	SLOW DECCELERATON
Escarpados	95
Ocho Flojo	105
Chandela	105

B.- PROCEDIMIENTOS DE EMERGENCIA:

1.- ENGINE FAILURE DURING TAKEOFF RUN:

- | | |
|--------------------|---------------------|
| 1. Throttle | IDLE |
| 2. Brakes | APPLY |
| 3. Wing Flaps | RETRACT |
| 4. Mixture | IDLE CUT-OFF |
| 5. Ignition Switch | OFF |
| 6. Master Switch | OFF |

2. - ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF:

- | | |
|---------------------|---------------------------|
| Airspeed | 70 KIAS (FLAPS UP) |
| | 65 KIAS (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	68 MPH
Fuel Shutoff Valve	ON (TODA ADENTRO)
Fuel Selector Valve	BOTH
Auxiliary Fuel Pump Switch	ON
Mixture	RICH
Ignition Switch	BOTH (OR START IF PROPELLER IS STOPPED)

4. - FIRE DURING START ON GROUND:

Cranking	CONTINUE
If engine starts:	
Power	1800 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
Fuel Shutoff Valve	OFF (Pull Full out)
Auxiliary Fuel Pump Switch	OFF
Fire Extinguisher	OBTAIN
Fire Damage	INSPECT

5. - ENGINE FIRE IN FLIGHT:

Mixture	IDLE CUT-OFF
Fuel Shutoff Valve	OFF
Auxiliary Fuel Pump Switch	OFF
Master Switch	OFF
Cabin Heat and Air	OFF
Airspeed	100 KIAS (IF FIRE IS NOT EXTINGUISHED, INCREASE GLIDE SPEED TO FIND AN AIRSPEED WHICH WILL PROVIDE AN INCOMBUSTIBLE MIXTURE)
Forced Landing	EXECUTE