



DEPARTAMENTO “SEGURIDAD OPERACIONAL”  
 “SUBDEPARTAMENTO “LICENCIAS”

**“CESSNA CC-AYO”**

**A. - OPERATING LIMITATIONS**

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

Va (3100 lbs)	<b>110</b>
Vne	<b>175</b>
Vno	<b>140</b>
Vfe 50°	<b>140</b>
Vs	<b>51</b>
Vso	<b>41</b>
Vx (SL)	<b>58</b>
Vy (SL)	<b>65</b>
Vr	<b>50-60</b>
Vapp (Flap DN)	<b>60-70</b>
Vglide	<b>76</b>
Max Cross Wind	<b>15</b>

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

Type to Use	<b>100LL</b>
Total Capacity	<b>92</b>
Usable Capacity	<b>87</b>

**3. - Weight (LBS)**

Maximum TAKE-OFF	<b>3100</b>
Maximum Baggage	<b>200</b>

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

<b>Engine Operating Limitations</b>	
Reason HP o BHP	<b>230</b>
Maximum RPM	<b>2400</b>
<b>Cylinder Head Temperature (°F)</b>	
Maximum	<b>500</b>
Minimum	<b>200</b>
<b>Oil Temperature (°F)</b>	
Maximum	<b>245</b>
Minimum	<b>100</b>
<b>Oil Pressure (PSI)</b>	
Maximum	<b>115</b>
Minimum	<b>20</b>

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

Chandelles	<b>110</b>
Lazy Eight	<b>110</b>
Steep Turns	<b>110</b>
Spin (Flaps UP)	<b>Slow Deceleration</b>

## **B.- EMERGENCIES PROCEDURES**

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

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

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

Airspeed	<b>75 KIAS (FLAPS UP)</b> <b>70 KIAS (FLAPS 10° - FULL)</b>
Mixture	<b>IDLE CUT-OFF</b>
Fuel Selector	<b>OFF</b>
Ignition Switch	<b>OFF</b>
Flaps	<b>AS REQUIRED</b>
Stby Batt	<b>OFF</b>
Master Switch	<b>OFF</b>
Cabin Door	<b>UNLATCH</b>
Land	<b>STRAIGHT AHEAD</b>

### 3.- ENGINE FAILURE DURING FLIGHT

Best Glide Speed	<b>76 KIAS</b>
Fuel Selector Valve	<b>BOTH</b>
Fuel Pump	<b>ON</b>
Mixture Control	<b>RICH</b>
Ignition Switch	<b>BOTH</b>

(Or START if propeller is stopped)

### 4.- FIRE DURING START ON GROUND

Ignition Switch	<b>START</b>
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(Continue cranking to start the engine)

#### IF ENGINE STARTS

Power	<b>1800 RPM</b> (for a few minutes)
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Engine	<b>SHUTDOWN</b> (inspect for damage)
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#### IF ENGINE FAILS TO START

Throttle	<b>FULL</b>
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Mixture	<b>IDLE CUTOFF</b>
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Ignition Switch	<b>START</b> (Continue cranking)
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Fuel Selector Valve	<b>OFF</b>
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Fuel Pump	<b>OFF</b>
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Ignition Switch	<b>OFF</b>
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Stby Batt	<b>OFF</b>
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Master Switch	<b>OFF</b>
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Engine	<b>SECURE</b>
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Parking Brake	<b>RELEASE</b>
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Fire Extinguisher	<b>OBTAIN</b>
Airplane	<b>EVACUATE</b>
Fire	<b>EXTINGUISH</b>
Fire Damage	<b>INSPECT</b>

**5.- ENGINE FIRE IN FLIGHT**

Mixture	<b>IDLE CUTOFF</b>
Fuel Selector Valve	<b>OFF</b>
Fuel Pump	<b>OFF</b>
Master Switch	<b>OFF</b>
Cabin Vents	<b>OPEN</b> (as needed)
Cabin Ht and Cabin Air	<b>OFF</b>
Airspeed	<b>100 KIAS</b>

(If fire is not extinguished, increase glide speed to find an airspeed, within airspeed limitations, which will provide an incombustible mixture)

Forced Landing	<b>EXECUTE</b>
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