



DEPARTAMENTO “SEGURIDAD OPERACIONAL”
SUBDEPARTAMENTO “LICENCIAS”
SECCIÓN EVALUACIONES

“COMMANDER MC-114TC”

A.- Limitaciones de Operación

1.- Limitaciones (Velocidades)

3305 LBS	KIAS
Va	117
Vne	187
Vno	162
Vfe	149
Vle	187
Vlo	129
Vs	66
Vso	59
Vx	75
Vy	100
Vr	70
Vapp (Flap DN)	75
Vplaneo	85
Max Cross Wind	19

2.- Combustible (U.S. GAL)

Tipo a Utilizar	100/130
Capacidad Total	90
Combustible Usable	88

3.- Pesos (LBS)

Máximo TAKE-OFF	3305
Máximo Equipaje	200

4.- Motor (Potencia Máxima Continua)

Limitaciones Operativas de Motor	
Razón HP o BHP	270
Máximas RPM	2575
RPM estáticas	
Máximas	2575
Mínimas	-.-
Temperatura de aceite (°F)	
Máxima	245
Mínima	160
Presión de aceite (PSI)	
Máxima	115
Mínima	25

5.- Limites de maniobras (Cat. Normal)

MANIOBRA	KIAS
Spin (Flaps UP)	PROHIBIDOS
Escarpados	117
Ocho Flojo	117
Chandela	117

B.- Emergencies Procedures

1.- ENGINE FAILURE DURING TAKEOFF RUN

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

2.- EMERGENCY LANDING WITHOUT ENGINE POWER:

Airspeed	85 KIAS (Flaps up – 75 with flaps 35o.)
Aux. Fuel Pump	OFF
Fuel Selector Valve	OFF
Landing Gear	DOWN (if land site is extremely soft, must be up)
Mixture	IDLE CUT-OFF
Ignition Switch	OFF
Flaps	35o. (recommended)
Battery and Alt. Switches	OFF (when landing is assured)
Touch Down	TAIL LOW
Brakes	AS REQUIRED

3.- ENGINE FAILURE DURING FLIGHT

Airspeed	85 KIAS
Fuel Selector Valve	FULLEST TANK
Aux. Fuel Pump	ON
Ignition Switch	BOTH

a.- If engine doesn't start:

Mixture	IDLE CUT-OFF then ADVANCE SLOWLY (until start occurs)
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b.- If engine doesn't start:

Alternate Induction Air	PULL ON
Mixture	IDLE CUT-OFF
Mixture	ADVANCE SLOWLY

c.- If engine doesn't start:

Aircraft	EMERG. LANDING WITH OUT ENG. POWER
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d.- If engine Starts:

Throttle	ADJUST
Aux. Fuel Pump	OFF
Mixture	LEAN AS REQUIRED

4.- FIRE DURING START ON GROUND

Ignition **START**

Aux. Fuel Pump **OFF**

a.- If engine starts:

Throttle **1700 RPM for a few minutes**

Engine **SHUTDOWN and inspect for damage**

b.- If engine fails to start:

Cranking **CONTINUE (while fuel is cut-off)**

Mixture **IDLE CUT-OFF**

Fuel Selector **OFF**

Ignition switch **OFF**

Battery and Alternator Switches **OFF**

Airplane **EVACUATE**

Fire **EXTINGUISH**

Fire Damage **INSPECT**

5. - ENGINE FIRE IN FLIGHT

Mixture	IDLE CUT-OFF
Fuel Selector Valve	OFF
Ignition Switch	OFF
Battery/Alternator Switch	OFF
Cabin Heat and Air	OFF
Airspeed	INCREASE
Forced Landing	EXECUTE (Emerg. Land. w/out Eng. Power)