



DEPARTAMENTO “SEGURIDAD OPERACIONAL”
 SUBDEPARTAMENTO “LICENCIAS”
 SECCIÓN EVALUACIONES

“BEECHCRAFT SUNDOWNER BE-23”
 “CC-CCU MEGAPARTS S. A.”

A.- Operating Limits

1.- Airspeed Limitations

	KIAS
Va	118
Vne	152
Vno	136
Vfe	96
Vs	61
Vso	51
Vx (SL)	69
Vy (SL)	75
Vr	65
Vapp (Flap DN)	68
Vglide	78
Max Cross Wind	17

2.- Fuel (U.S. GAL)

Type to Use	100LL
Total Capacity	59.8
Usable Fuel	57.2
Each Tank	29.9

3.- Weights (LBS)

Max. Takeoff Weight	2450
Maximum Baggage	270

4.- Engine (Max. Continuous Power)

Engine Operating Limitations	
HP or BHP Rate	180
Maximum RPM	2700
Static RPM	
Minimum	2250
Maximum	2350
Oil Pressure (PSI)	
Minimum	25
Maximum	100
Fuel Pressure (PSI)	
Minimum	0.5
Maximum	6.0

5.- Maneuver Limitations

MANEUVER	KIAS
Chandelles	116
Lazy Eights	116
Steep Turns	116
Stalls	Slow Deceleration

B.- Emergency Procedures

1.- ENGINE FAILURE DURING TAKEOFF RUN

.Throttle	CLOSED
.Braking	MAXIMUM
.Fuel Selector Valve	OFF
.Switch Battery, Alternator and Fuel Boost	OFF
.Magneto/Start Switch	OFF

2.- ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

.Mixture	FULL RICH then lean as required
.Fuel Boost Pump	ON
.Fuel Selector Valve	SELECT OTHER TANK

(Check to feel detent and check visually)

.Magnetos	CHECK LEFT AND RIGHT, THEN BOTH
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IF NO RESTART:

.Establish	MAXIMUM GLIDE
.Throttle	CLOSED
.Fuel Selector Valve	OFF
.Mixture	IDLE CUT OFF
.Magneto/Start Switch	OFF
.Battery & Alt, Alt, and Fuel Boost	OFF

When certain of reaching the selected landing site:

.Airspeed	68 KTS/78 MPH
.Flaps	AS REQUIRED

3.- ENGINE FAILURE DURING FLIGHT

.Fuel Pressure Gage **CHECK**

If fuel flow is abnormally low:

- a. Mixture **FULL RICH**
 - b. Fuel Boost Pump **ON** (Lean as required)
 - c. Fuel Boost Pump **OFF** if performance does not improve in a few moments
- .Fuel Quantity Indicator **CHECK** for fuel supply in tank being used

If tank being used is empty:

- a. Fuel Tank Selector Valve **SELECT OTHER FUEL TANK**
- b. Fuel Boost Pump **ON**

4.- AIR START PROCEDURE

- .Fuel Selector Valve **SELECT TANK MORE NEARLY FULL**
- .Throttle **FULL FORWARD**
- .Mixture **FULL RICH**
- .Fuel Boost Pump **ON** until power is regained, then **OFF**
- .Throttle **ADJUST** to desired power
- .Mixture **LEAN** as required

5.- ENGINE FIRE DURING START ON GROUND

- .Fuel Selector Valve **OFF**
- .Throttle **CLOSED**
- .Mixture **IDLE CUT-OFF**
- .Battery & ALT and Magneto/Start Switches **OFF**
- .Extinguish with Fire Extinguisher

6.- ENGINE FIRE IN FLIGHT

.Fuel Selector Valve	OFF
.Mixture	IDLE CUT-OFF
.Throttle	CLOSED
.Cabin Air Control	PULL OFF
.Defrost Valve	PUSH OFF
.Battery Switch	OFF
.Alternator Switch	OFF
.Magneto/Star Switch	OFF
.Do not attempt to restart engine	

7.- EMERGENCY DESCENT

.Throttle	IDLE
.Airspeed	ESTABLISH 152kts

8.- LANDING WITHOUT POWER

When assured of reaching the landing site selected, and on final approach.

.Airspeed	68 kts
.Fuel Selector Valve	OFF
.Mixture	IDLE CUT – OFF
.Magneto/Start Swich	OFF
.Flaps	AS REQUIRED
.Battery Switch, Alternator Switch, and	
.Fuel Boost Switch	OFF
.Upper Cabin Door Latch	OPEN