

"Dedicated to Preserving a Classic"

OM-603 OPERATING MANUAL

This manual applies to 8KCAB aircraft serial numbers 934-2003 and up

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CLIMB

- 1) Throttle FULL OPEN.
- 2) Propeller Control FULL INCREASE.
- 3) Mixture lean only as required to maintain smooth engine operation.
- 4) Airspeed 75 80 MPH.
- 5) Electric Fuel Pump OFF after safe altitude has been obtained.

For maximum performance climbs, use full throttle and the following speeds.

Model	Super Decathlon (mph IAS)		
Best Rate of Climb (V _Y)	82		
Best Angle of Climb (V _x)	58		

If best rate of climb (or best angle of climb) is not required, a climb speed between 80 and 90 MPH will provide good forward visibility (and engine cooling in a warm climate). The mixture should be full rich; lean only as required to maintain smooth engine operation.

NOTE

Monitor fuel pressure gauge when switching electric fuel pump off to insure continuous fuel pressure "in the green" with electric fuel pump off.

TIME, FUEL AND DISTANCE TO CLIMB

CONDITIONS

- 1. Standard Temperature.
- 2. Data for 1800 1b Weight
- 3. Full Throttle, 2700 RPM.

PILOT TECHNIQUE: Refer to "CLIMB" in Section III.

1. Maximum Rate of Climb.

2. Lean Only as Required to Maintain Smooth Engine Operation.

Pressure Standard Altitude Temp (ft) (°C)	Standard	Climb	Rate of	From Sea Level		
	Speed (mph-IAS)	Climb (fpm)	Time (min)	Fuel (gal)	Distance (sm)	
0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 14000	15 13 11 9 7 5 3 1 -1 -3 -5 -7 -9 -11	80 80 79 79 78 78 77 77 76 75 75 74 74 74 73	1230 1160 1090 1020 940 880 790 730 660 590 520 440 370 300 230	0 1 2 3 4 5 6 7 9 10 12 14 17 20 23	1.0 1.2 1.4 1.7 1.9 2.2 2.4 2.7 3.0 3.3 3.7 4.0 4.5 5.0	0 1 2 4 5 7 8 10 12 14 17 20 24 28
15000	-15	72	160	23 29	5.6 6.4	34 42

NOTES

- 1. Data presented in this table represents maximum airplane capability at speeds shown and requires aircraft in good operating condition and a proficient pilot.
- 2. Distances shown are based on zero wind.
- 3. Allow one gallon fuel for engine start, taxi and takeoff.
- 4. Decrease distance for head wind or increase distance for tail wind with the following increment: Time(min)/60 x wind component in the direction of flight (mph).