

PART II

LIMITATIONS

50. Engine limitations—Ghost Mk. 103

(a) The main engine limitations are as follows:—

Power rating	Time limit	R.p.m.	Max. j.p.t. °C.
Max. take-off, climb and operational necessity	30 mins. combined	10,250*	725
Max. continuous	Unrestricted	9,750	625
Ground idling	Unrestricted	3,000±200	450

* Maximum permissible r.p.m. are to be reduced to 10,100 above 25,000 ft. when climbing and above 35,000 ft. in level flight.

(b) Oil temperature limitations

Maximum 135° C.

Minimum for starting and opening up using oil:—

OEP-71 or OM-71 -10° C.

OX-38 -40° C.

51. Flying limitations

(a) The Sea Venom F.A.W.20 is cleared for Service use ashore, in temperate climates only. Aerobatics with tip tanks full or empty and practice spins of up to two turns are permitted.

(b) Speed and mach number limitations

(i) Clean aircraft

Maximum airspeed 500 knots

Maximum mach number

Above 15,000 feet 0.85M

Below 15,000 feet 0.83M

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(ii) When carrying R.P.s

Maximum airspeed 500 knots

Maximum mach number, at all heights 0.80M

(iii) For gun firing

The maximum speed for gun firing is 455 knots unless Mod. N.198 is embodied.

(iv) For the operation of the following and flight with them extended

Flaps

Between 0° and 30° 190 knots

Between 30° and fully down 170 knots

Undercarriage 220 knots

(c) Weight limitations

The maximum all-up weights are as follows. For typical service loads, see Part V para. 98.

Max. Weight lb.	Permitted Manœuvres
15,090	Overload take-off and gentle manœuvres
14,270	Take-off and all forms of flying
13,890	Overload non-arrested landing
13,070	Normal non-arrested landing
11,600	Arrested landing

NOTE—Landings with fuel in the tip tanks must not be made except in an emergency.

(d) C.G. limitations

The permissible limits, with the undercarriage down, are:—

Forward limit 6.2 ins.
aft of datum

Aft limit

Tip tanks full, ammo. tanks full .. 10.6 ins.
aft of datum

Tip tanks full, ammo. tanks empty
or ballasted for full ammo. .. 11.6 ins.
aft of datum

Tip tanks empty, ammo. tanks empty
or ballasted for full ammo. .. 9.6 ins.
aft of datum

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- (e) *Flight without tip tanks* is prohibited.
- (f) *An accelerometer reading of +6G* must not be exceeded.
- (g) *The maximum angles for firing rockets are:—*
- | | | | | | | |
|-------|----|----|----|----|----|-----|
| Dive | .. | .. | .. | .. | .. | 45° |
| Climb | .. | .. | .. | .. | .. | 10° |

52. Other limitations

- (a) The use of anti-G suits (if provision is made) is prohibited.
- (b) The signal discharger (if fitted) must not be used.



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