

PART II LIMITATIONS

37. Engine limitations—Goblin 2

Power rating	Time limit (mins.)	R.p.m.	Jet pipe temp. °C. Maximum
Take-off and Operational Necessity	30	10,200*	745 (680 if mod. 404 not embodied)
Max. Continuous	Unrestricted	9,700	620
Ground Idling	Unrestricted	3,000 ± 200	600

*R.p.m. must be reduced to a maximum of 10,000 above 25,000 ft. in a climb or above 35,000 ft. in level flight.

Oil temperatures

Maximum in flight	...	...	...	80°C.
Minimum for opening up	...	...	...	-10°C.

Oil pressures

Normal at 9,700 r.p.m.	...	...	40/45 lb./sq. in.
Emergency minimum (5 min. limit)	...	...	25 lb./sq. in.

38. Flying limitations

- (a) Intentional spinning is prohibited. Gentle manoeuvres only are permitted when carrying drop tanks. Mk.5 aircraft not embodying Mod. 727 (modified hood) are restricted to flight at or below 35,000 ft.
- (b) When flying above 15,000 ft. with drop tanks ammunition or ballast in lieu must be carried; the guns must not be fired (see para. 67 (a) (ii)).

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(c) Maximum speeds

- (i) Clean aircraft Below 15,000 ft., 435 knots or 0.76M.
Above 15,000 ft., 0.78M.
- (ii) With drop tanks Below 5,000 ft., 390 knots.
Above 5,000 ft., 0.65M. (para. 51)

(ii) With external stores

Stores	Below 5,000 ft. (M.N.)	Above 5,000 ft. (M.N.)	Max. Giv. angle for release
Drop tanks	390	0.65	Level flight (not exceed 260 knots)
*With R.P.s	420-440	0.75	40°-44°
With 500 lb. bombs	455	0.75	40°
With 250 lb. bombs	455	0.75	70°
With 1,000 lb. bombs	400	0.65	40°
With 25 lb. bombs	400	0.65	65°

*When R.P.s are carried together with drop tanks the limiting speed for the drop tanks applies.

(iii) For the operation of:—

Undercarriage	...	...	...	175 knots
Flaps	...	...	...	155 knots
Airbrakes	...	...	...	No limit

The maximum speed for the operation of a service also applies for flight with the service in the extended position.

(d) Maximum all-up weights

Take-off from prepared runways, gentle manoeuvres only	13,100 lb.
All permitted forms of flying and for landing	10,560 lb.
For typical service loads, see para. 67 (c).	

(e) G. LIMITATIONS

THE FOLLOWING ACCELEROMETER READINGS MUST NOT BE EXCEEDED.

CLEAN AIRCRAFT +6G

WITH DROP TANKS +4G.

ALL CONFIGURATIONS -3½G.

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