

PART II

LIMITATIONS

50. Engine limitations—Goblin 3

| Power rating | Time limit | R.P.M. | J.p.t. °C. |
|---------------------------------------|--------------|-------------|------------|
| Take-off and Operational Necessity .. | 30 mins. | 10,600* | 710 |
| Max. Continuous .. | Unrestricted | 10,250 | 650 |
| Min. Approach .. | — | 5,500 | — |
| Ground Idling .. | Unrestricted | 3,000 ± 200 | 600 |

* R.p.m. must be reduced to 10,500 above 25,000 ft. in a climb, or above 35,000 ft. in level flight.

51. Flying limitations

(a) Spinning up to a maximum ^{OF-} ~~for~~ four turns is permitted.

(b) *Maximum speeds*

Clean aircraft or with R.P... 455 knots

With drop tanks or bombs

 Below 15,000 ft... .. 390 knots

 Above 15,000 ft. .. 0.76M.

Operation of airbrakes, when carrying drop tanks 0.70M.

Jettisoning drop tanks .. 260 knots.

For operation of undercarriage up or down 175 knots.

PART II—LIMITATIONS

For operation of flaps between:—

| | | |
|--------------------|-------|------------|
| 0° and 30° | | 155 knots. |
| 30° and fully down | | 145 knots. |

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

(c) *Maximum all-up weights:—*

| | | |
|-------------------------------------|---------|------------|
| Take-off and gentle manoeuvres only | | 13,380 lb. |
| All other permitted forms of flying | | 11,610 lb. |

(d) *G limitations*

The following accelerometer readings must not be exceeded:—

| | | |
|---------------------------------|---------|-------|
| Clean aircraft | | + 6G. |
| With drop tanks (full or empty) | | + 4G. |

The maximum permitted negative accelerometer reading is $-3\frac{1}{3}G$.

NOTE.—Until Mod. 3500 or Mod. 3535 is embodied the application of negative G should be avoided; otherwise there is a risk of flash fire caused by penetration of fuel into the engine bay.

(e) The aircraft must not be taxied with the canopy open.



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