OPERATING LIMITATIONS

AVON Mk. 10701

Condition	Maximum R.P.M.	Maximum J.P.T. deg. C.	Time Limit
GROUND IDLING	**2,750 ± 100**	**530**	Unrestricted
TAKE-OFF AND OPERATIONAL NECESSITY	***7,950 ± 25**	**680**	10 minutes (combined total)
INTERMEDIATE (MAXIMUM)	**7,750**	**620**	30 minutes
CONTINUOUS (MAXIMUM)	**7,500**	**575**	Unrestricted
APPROACH	**4,500**	**480**	Unrestricted

Note :—These jet pipe temperatures are applicable when the thermocouples are located 12 inches upstream from the propelling nozzle flange.

Oil pressure

Normal (at 7,500 r.p.m.) ... ... 20 lb. per sq. in.

Minimum (at 7,500 r.p.m.) ... ... 15 lb. per sq. in.

* The engine is governed at 7,950 r.p.m. at which speed maximum thrust is obtained. At low air temperatures the engine may underspeed to as low as 7,800 r.p.m. at full throttle whilst still maintaining maximum thrust.

OPERATING LIMITATIONS

AVON Mk.10901

Condition	Maximum r.p.m.	Maximum j.p.t. °C.	Time Limit
Ground idling	2750 ±100	530	Unrestricted
Take-off and Operational Necessity	*7950 ±50	†680	10 minutes (combined total)
Intermediate (maximum)	7750	620	30 minutes
Continuous (maximum)	7500	575	Unrestricted
Approach	4500	480	Unrestricted

Oil pressure:-

Normal (at 7500 r.p.m.) .. .. .. 20 lb per sq in
Minimum (at 7500 r.p.m.) .. .. .. 15 lb per sq in

* The engine is governed at 7950 r.p.m. at which speed maximum thrust is obtained. At low air temperatures the engine may underspeed to as low as 7800 r.p.m. at full throttle whilst still maintaining maximum thrust. During climb, the governed speed may be permitted, to rise to 8100 r.p.m.

LC
Blr

† J.P.T. may rise to 740 degrees C. for 5 seconds maximum, returning to the normal maximum J.P.T. within a further 5 seconds, during hot 're-slam' accelerations.

The maximum J.P.T. for starting is 630 degrees C. for a period not exceeding 3 seconds.

OPERATING LIMITATIONS

AVON Mk. 11301

Condition	Maximum R.P.M.	Maximum J.P.T. deg. C.	Time Limit
GROUND IDLING	**2,750 ± 100**	**550**	Unrestricted
TAKE-OFF AND OPERATIONAL NECESSITY	***7,900 ± 25**	**705**	10 minutes (combined total)
INTERMEDIATE (MAXIMUM)	**7,800**	**680**	30 minutes
CONTINUOUS (MAXIMUM)	**7,550**	**630**	Unrestricted
APPROACH	**4,500**	**500**	Unrestricted

Oil pressure

Normal (at 7,500 r.p.m.) ... ... 20 lb. per sq. in.

Minimum (at 7,500 r.p.m.) ... 15 lb. per sq. in.

* The engine is governed at 7,900 r.p.m. at which speed maximum thrust is obtained. At low air temperatures the engine may underspeed to as low as 7,800 r.p.m. at full throttle whilst still maintaining maximum thrust.

OPERATING LIMITATIONS

AVON Mk. 11501

Condition	Maximum R.P.M.	Maximum J.P.T. deg. C.	Time Limit
GROUND IDLING	**2,750 ± 100**	**530**	Unrestricted
TAKE-OFF AND OPERATIONAL NECESSITY	**7,950 ± 50**	**710***	10 minutes total
INTERMEDIATE	**7,800**	**685**	30 minutes
CONTINUOUS (Maximum)	**7,550**	**635**	Unrestricted
APPROACH	**4,500 (minimum)**	**480**	Unrestricted

*Top temperature control is set at 700 ± 5 deg. C.

The engine is subject to the following flight limitations at an engine speed of 7,950 r.p.m.

	Sub-Arctic Winter	I.S.A.	Tropical Summer
MAX. SEA LEVEL MACH.	**1·03**	**1·00**	**0·93**
MIN. ALTITUDE FOR MACH. 1·0	**Sea Level**	**Sea Level**	**3,700 ft.**
MIN. ALTITUDE FOR MACH. 1·2	**6,000 ft.**	**7,500 ft.**	**14,500 ft.**

Oil pressure

Normal (at 7,550 r.p.m.) ... ... 20 lb. per sq. in.

Minimum (at 7,550 r.p.m.) ... ... 15 lb. per sq. in.

OPERATING LIMITATIONS

AVON Mk.12101

Condition	Maximum r.p.m.	Maximum j.p.t. °C	Time Limit
Ground idling	3000 ± 100	525	Unrestricted
Take-off and Operational Necessity	8100 ± 50	* 690	10 minutes Total
Intermediate	7950	655	30 minutes
Continuous (maximum)	7700	625	Unrestricted
Approach	4500 (minimum)	480	Unrestricted

* Top temperature control is set at 685 ± 5 degrees C. J.P.T. may rise to 740 degrees C for 5 seconds maximum, returning to the normal maximum J.P.T. within a further 5 seconds, during hot 're-slam' accelerations.

The engine is subject to the following flight limitations at an engine speed of 8100 r.p.m.

MB

Gw

Condition	Sub-Arctic Winter	I.S.A.	Tropical Summer
Max. Sea Level Mach	1.03	1.00	0.93
Minimum altitude for Mach = 1.0	Sea Level	Sea Level	3750 ft
Minimum altitude for Mach = 1.2	6000 ft	7500 ft	14500 ft

Oil pressure:

Normal (at 7700 r.p.m.) .. .. .. 20 lb per sq in
Minimum (at 7700 r.p.m.) .. .. .. 15 lb per sq in
Minimum (at idling) .. .. .. 10 lb per sq in

OPERATING LIMITATIONS

AVON Mk.12201

Condition	Maximum r.p.m.	Maximum j.p.t. °C.	Time Limit
Ground idling	3000 ± 100	525	Unrestricted
Take-off and Operational Necessity	8100 ± 50	* 690	10 minutes
Intermediate	7950	655	30 minutes
Continuous (maximum)	7700	625	Unrestricted

WARNING: ENGINE RESPONSE WILL BE DEGRADED IF THE R.P.M. FALLS BELOW 4500.

* J.P.T. may rise to 740 degrees C. for 5 seconds maximum, returning to the normal maximum J.P.T. within a further 5 seconds, during hot 're-slam' accelerations.

SM
Mth

The engine is subject to the following flight limitations at an engine speed of 8100 rev/min

The maximum J.P.T. for starting is 640°C. for a period not exceeding 3 seconds.

Condition	Sub-Arctic Winter	I.S.A.	Tropical Summer
Max. Sea Level Mach	1.03	1.00	0.93
Minimum altitude for Mach = 1.0	S.L.	S.L.	3750 ft.
Minimum altitude for Mach = 1.2	6000 ft.	7500 ft.	14500 ft.

Oil pressure:-

Normal (at 7700 rev/min and above) .. .. 20 lb per sq in
Minimum (at 7700 rev/min and above) .. .. 15 lb per sq in
Minimum (at 3500 rev/min) .. .. .. 10 lb per sq in