

Carburetors: Stromberg PT-1362 Stromberg PT-1366		Engine Models: R-2800-i0 R-2800-10W						
Operating Conditions	Altitude (feet)	Max. Permissible R.P.M.	Max. Permissible Manifold Press. "Hg.	Mixture Control	Blower Ratio	Max. Cyl. Head Temperature (°C)	Permissible Oil in Temp. Gauge (°C)	Oil Pressure lbs. Per Sq. Inch
Starting		800		Idle Cut-off then Auto-Rich	Neutral			
Warm-Up		1000		Auto-Rich	Neutral Low, high	245		
Take-Off *	S.L.	2700	54.0	Auto-Rich	Neutral	250	40-85	75-100
Normal Rated Power	S.L.-7000	2550	44.0	Auto-Lean	Neutral	260	60-85	75-95
Normal Rated Power	7000-22000	2550	49.5	Auto-Lean	Low	260	60-85	75-95
Normal Rated Power	22000-Up	2550	49.5	Auto-Lean	High	260	60-85	75-95
Max. Cruising Power	S.L.-13000	2250	34	Auto-Lean	Neutral	252	60-85	60-90
Max. Cruising Power	13000-25000	2400	34	Auto-Lean	Low	252	60-85	60-90
Max. Cruising Power	25000-Up	2050	34	Auto-Lean	High	252	60-85	60-90
Military Power **	S.L.-7000	2700	52.5	Auto-Lean	Neutral	260	40-100	75-100
Military Power **	7000-22000	2700	53.0	Auto-Lean	Low	260	40-100	75-100
Use Normal Rated Power in High Blower	2200-Up	2550	48.5	Auto-Lean	High	260	40-100	75-100
War Emergency * (Water Injection)	S.L.-3000	2700	60	Auto-Lean	Neutral			55 (min.)
	3000-16000	2700	60	Auto-Lean	Low			55 (min.)
	16000-UP	2700	60	Auto-Lean	High			55 (min.)
Dive		3060	45-20	Auto-Lean (1)	Neutral	252	60-85	
Landing		2250- 2450		Auto-Rich	Neutral	252	60-85	
Stopping		1200		Auto-Rich (Idle) Idle Cut-off (Stop)	Neutral			
* 5 Min. Rating ** 30 Min. Rating								

(1) If dive is too steep for automatic mixture control to compensate for rapid change in altitude, it may be necessary to shift to Auto-Rich to avoid backfiring.

Oil Pressure: Desired - 17 p.s.i.
Allowable - 16-18.5 p.s.i.
Min. Idling - 7 p.s.i.

Figure 39 - Specific Engine Flight Chart