

PILOT'S CHECK CHART

Pratt & Whitney Twin Wasp R-1830-43; Single Stage, Single Speed: PD-12F2 and PD-12F5;
Fuel: Aviation Grade 100

Operating Condition	Max. RPM or Gov. Setting	Max Man Pressure in Hg.	Mixture Control	Oil Press. Limits Lbs./In. ²	Oil in Temp. Limits °C.	Cyl. Heads Max. °C.	Cowl Flaps	Approx. Fuel Cons. U. S. Gal./Hr.
(Pull Through) Start	700	1/5 Throttle	Idle Cut-off then Auto Rich	Show in 30 sec. (400)			Full Open	
Warm-Up	1000		Auto Rich				Full Open	
Ground Test	(*High RPM) 2000	30.0	Auto Rich	80-100	40-70	205	Full Open	
Take-Off	2700	48.0	Auto Rich	80-100	40-85	260	Part Open	150
Military (5 min.)	2700	48.0**	Auto Rich	80-100	40-100	260	Part Open	150
Rated Power	2550	43.5**	Auto Rich	80-100	40-85	260	As Req'd	132
75% Rated	2230	34.0	Auto Rich	80-100	40-85	232	As Req'd	72
Cruising—Max.	2230	31.0	Auto Lean	65-100	60-75	232	Closed	56
Dive	3060	(12-15)	Auto Rich		60-75	232	Closed	
Glide and Descent	(*Cruise RPM)		Auto Rich		60-75	232	Closed	
Approach for Landing	(*2300)		Auto Rich		60-75	232	Part Open	
Stop	(*High RPM)		Idle Cut-Off	15 (Min. Idling)		205	Full Open	

*Propeller Governor Setting.

**Note: Reduce manifold pressure 1.5 in. per 1000 ft. above 25,000 ft. to prevent overspeeding of turbine supercharger.
Desired Fuel Pressure: 15±1 lbs./sq. in. Desired Oil Temp.: 60-75° C.