



REPUBLIC AVIATION CORPORATION  
FARMINGDALE, LONG ISLAND, NEW YORK  
• • • SERVICE DEPARTMENT • • •

July 2, 1947

No. 23A

This sheet replaces No. 23 dated April 24, 1947

### POWER SETTINGS

In order to help Seabee owners obtain maximum fuel economy and best performance, a cruise control chart has been prepared to show the proper settings that may be used for high or low speed cruising at various fuel consumption and altitudes.

When changing power settings, if the RPM drops below the given figure, it shows that the propeller is working exceptionally well. However, if the RPM is higher than the given figure, it indicates possible malfunctioning of the propeller, probably binding blades which prevents the blades from rotating to the full high pitch position. To avoid propeller binding, grease the propeller frequently with a grease approved in the Hartzell Manual.

It is important to select the best mixture for any given power setting; when flying over 4000 feet altitude the mixture control should be leaned out carefully for best engine performance since at the higher altitudes the mixture setting is extremely sensitive. A change of 1/16 inch in the control settings may mean the difference between a smooth or rough engine.

W. H. Ehmman  
Service Manager

**CRUISE CONTROL CHART**  
(Franklin Engine)

See Note 3	MAX CONT POWER		HI SPEED CRUISE		LOW SPEED CRUISE		MAX RANGE	
FUEL FLOW and POWER SETTING  ALTITUDE	5.8 MI/GAL		6.5 MI/GAL		7.5 MI/GAL Approx. 75% Power		8.5 MI/GAL	
	MP	RPM	MP	RPM	MP	RPM	MP	RPM
Sea Level	28	2500	27	2350	25.5	2200	23.5	2000
2000			27	2350	25.5	2200	23.5	2000
4000					23.5	2400	21.5	2200
6000					22.5	2500	21	2300
8000					21	2500	20	2350

Note (1) Fuel consumption shown is for airplane of 3150-lbs. Gross weight; better consumption will be experienced for lower gross weight.

Note (2) Estimate fuel used in full throttle climb at average consumption of 20 gallons per hour.

Note (3) Each column gives progressively increased range at increasing penalty to cruising speed.

MP Manifold Pressure in inches of mercury.