



# AERONCA AIRCRAFT CORPORATION

MIDDLETOWN, OHIO

SERVICE LETTER No. 12

March 21, 1949

Subject: Cruising R.P.M. for Model 15AC and S15AC airplanes.

To assist pilots in selecting the desired R.P.M. to cruise Model 15AC and S15AC airplanes, the following chart is presented as a guide:

NOTE: Manufacturing tolerances must be allowed on each tachometer and propeller combination, therefore, propellers of the same pitch may have different R.P.M. values, making necessary a separate determination of proper cruising R.P.M. for each individual airplane.

Static R.P.M. is considered the easiest method of allowing for the variation in propellers and tachometers and for this reason is used as the base figure in the chart below. (Determine maximum static R.P.M. when engine oil temperature is within normal operating range, carburetor heat "off" and with airplane standing in a direct cross wind.)

- (1) Model 15AC landplanes using any McCauley propeller in the model group DM7647 thru DM7653, or, Sensenich propeller model 73BR44.

TO CRUISE AT:

TURN PROPELLER:

65% Rated Power	Max. Static R.P.M. + 50 R.P.M.
70% Rated Power	Max. Static R.P.M. + 100 R.P.M.
* 75% Rated Power	Max. Static R.P.M. + 150 R.P.M.
80% Rated Power	Max. Static R.P.M. + 200 R.P.M.
85% Rated Power	Max. Static R.P.M. + 250 R.P.M.
90% Rated Power	Max. Static R.P.M. + 300 R.P.M.

- (2) Model S15AC seaplanes using McCauley propeller model DM7644.

TO CRUISE AT:

TURN PROPELLER:

70% Rated Power	Max. Static R.P.M. + 0 R.P.M.
* 75% Rated Power	Max. Static R.P.M. + 70 R.P.M.
80% Rated Power	Max. Static R.P.M. + 140 R.P.M.
85% Rated Power	Max. Static R.P.M. + 190 R.P.M.

\* Recommended Cruising Power.

The above "Cruise" figures are based on gross weight - level flight operations at sea level with carburetor heat "off" and standard outside air conditions.

AERONCA AIRCRAFT CORPORATION

*W. B. Runyan, Jr.*  
W. B. Runyan, Jr.

Service and Operations Manager