

SERVICE LETTER NO. 24

July 6, 1949

Subject: Cruising R.P.M. for Models 7BCM, 7DC and S7DC airplanes.

To assist pilots in selecting the desired R.P.M. to cruise Models 7BCM, 7DC and S7DC 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) Models 7BCM and 7DC landplanes using any approved McCauley propeller in the CF71 series:

<u>TO CRUISE AT:</u>	<u>TURN PROPELLER:</u>
65% Rated Power	Max. Static R.P.M. - 120 R.P.M.
70% Rated Power	Max. Static R.P.M. - 20 R.P.M.
* 75% Rated Power	Max. Static R.P.M. + 35 R.P.M.
80% Rated Power	Max. Static R.P.M. + 90 R.P.M.
85% Rated Power	Max. Static R.P.M. + 135 R.P.M.
90% Rated Power	Max. Static R.P.M. + 185 R.P.M.

- (2) Models 7BCM and 7DC landplanes using any approved Sensenich propeller in the 72GK series:

<u>TO CRUISE AT:</u>	<u>TURN PROPELLER:</u>
65% Rated Power	Max. Static R.P.M. - 40 R.P.M.
70% Rated Power	Max. Static R.P.M. + 25 R.P.M.
* 75% Rated Power	Max. Static R.P.M. + 80 R.P.M.
80% Rated Power	Max. Static R.P.M. + 135 R.P.M.
85% Rated Power	Max. Static R.P.M. + 180 R.P.M.
90% Rated Power	Max. Static R.P.M. + 225 R.P.M.

* Recommended Cruising Power.

- (3) Model S7DC seaplanes using any approved McCauley propeller in the CF71 series:

TO CRUISE AT:

TURN PROPELLER:

70% Rated Power	Max. Static R.P.M. - 60 R.P.M.
* 75% Rated Power	Max. Static R.P.M. - 10 R.P.M.
80% Rated Power	Max. Static R.P.M. † 45 R.P.M.
85% Rated Power	Max. Static R.P.M. † 85 R.P.M.
90% Rated Power	Max. Static R.P.M. † 135 R.P.M.

- (4) Model S7DC seaplanes using any approved Sensenich propeller in the 72GK series:

TO CRUISE AT:

TURN PROPELLER:

70% Rated Power	Max. Static R.P.M. - 40 R.P.M.
* 75% Rated Power	Max. Static R.P.M. † 10 R.P.M.
80% Rated Power	Max. Static R.P.M. † 65 R.P.M.
85% Rated Power	Max. Static R.P.M. † 115 R.P.M.
90% Rated Power	Max. Static R.P.M. † 165 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

WBR:tr