



MIDDLETOWN, OHIO

SERVICE LETTER NO. 23

July 1, 1949

TO: ALL AERONCA DISTRIBUTORS AND DEALERS.

SUBJECT: CONVERSION OF A MODEL 11BC LANDPLANE TO A MODEL 11BC SEAPLANE.

A few changes are required in order to convert a Model 11BC to a Model 11BC. These changes are: (1) one No. 4-657 auxiliary ventral fin must be added to the bottom of the fuselage. (2) Markings on the airspeed indicator must be changed to meet with these specifications: Move the red line from 129 MPH to 122 MPH and the yellow line from 95 MPH to 90 MPH.

Data which will be needed for the weight statement follows:

It is not necessary to weigh the airplane unless major repair or alteration has been made to it.

I Weight Change Due to Installation of Floats:

	Wt. (LBS)	Arm (inches aft of wing leading edge)	Moment (inches lbs.)
Remove Main Landing Gear	-64.0	+ 1.3	-83
Remove Tailwheel Assembly	-10.0	+ 181.0	- 1810
Add Floats & Fittings	+ 167.0	+ 19.0	+ 3173
Add Auxiliary Ventral Fin	+ 4.0	+ 161.0	+ 644
Resulting Additional Wt.	+ 97.0		+ 1924
Moment of Additional Wt.	+1924		
Arm of Additional Wt.	<u>1924</u>	or 19.8 inches	
	97.0		

II Sample Calculation:

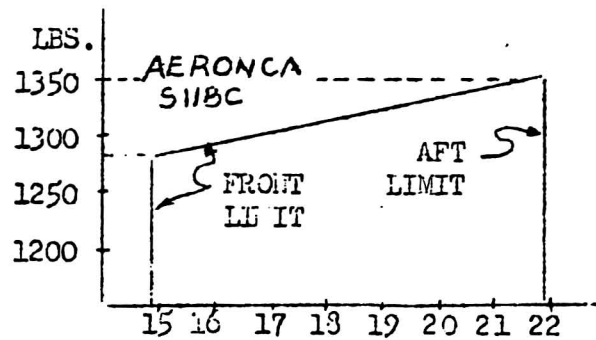
Typical weight of landplane empty = 825 lbs.  
 Typical c.g. location of landplane = 16.90 inches aft of wing lead edge  
 (Obtain actual wt. and c.g. of empty airplane from Aeronca weight statement or from current Form ACA 337)

	Wt. (LBS.)	Arm (inches aft of wing leading edge)	Moment (inches lbs.)
For landplane	825.0	16.90	13943
Add for seaplane	97.0	19.8	1921
Empty weight of seaplane	<u>922.0</u>		<u>15864</u>
C.G. of empty seaplane	<u>15864</u>	or 17.21 inches aft of wing leading edge	
	922.0		

III C.G. Range

(+21.9) at 1350 lbs. (no range - only one point).

(+14.9) to (+21.9) at 1278 lbs. or less. Straight line variation between points.



Sincerely yours,

AERONCA AIRCRAFT CORPORATION

*W. B. Runyan, Jr.*  
W. B. Runyan, Jr.  
Service and Operations Manager

WER:tr