

CHAMPION AIRCRAFT CORPORATION
Osceola, Wisconsin

Originally Issued April 11, 1949
Reissued August 29, 1962
Reissued February 20, 1969

SERVICE LETTER NO. 16

TO: All Champion Distributors and Dealers

SUBJECT: Conversion of a Model 7CCM (Carburetor Engine)
Landplane To A Seaplane.

A few changes are required in order to convert a Model 7CCM (carburetor engine) landplane to a seaplane. These changes are: (1) One No. 4-658 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 red line to 128 MPH, (3) One No. 1-2956 placard reading "avoid abrupt throttle operation" must be installed in the center of the instrument panel.

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 (inch lbs)
Remove Main Landing Gear	-64.0	+1.3	-83
Remove Tailwheel Assembly	-10.0	+187.0	-1870
Add Floats & Fittings	+168.0	+ 16.0	+2688
Add Auxiliary Ventral Fin	+ 4.0	+171.0	+ 684
Resulting Additional Wt.	+ 98.0 lbs.		+1419
Arm of Additional Wt.	+1419 inch lbs.		
	<u>1419</u>	or 14.47 inches	
	98.0		

II. Sample Calculation:

Typical Weight of landplane empty 790 lbs.
Typical c.g. location of landplane 14.82 inches
aft of wing
leading edge.

(Obtain actual wt. and C.G. of empty airplane from Form
ACA 309 or from Current Form ACA 337)

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	<u>Wt. (lbs)</u>	<u>Arm (inches aft of wing leading edge)</u>	<u>Moment (inch lbs)</u>
For landplane	790.0	14.82	11708
Add for seaplane	<u>98.0</u>	.	<u>1419</u>
Empty weight of sea- plane	888.0		13127
C.G. of empty seaplane	<u>13127</u>	of 14.78 inches aft of wing leading edge.	
	888.0		

III. C.G. Range

Fwd. limit (+10.4) (17.3%MAC) @ 1189#
 Str. line to (+16.8) (28.1% MAC) 1400#
 Rear Limit (+20.3) (34.1%MAC) @ 1400#