



SERVICE LETTER NO. 9

TO: ALL AERONCA DISTRIBUTORS AND DEALERS:

SUBJECT: CONVERSION OF MODEL 7DC LANDPLANE TO MODEL S7DC SEAPLANE.

A few changes are required in order to convert a Model 7DC to a Model S7DC. 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 red line to 128 MPH. Move yellow line to 95 MPH. (3) 135 MPH placard must be changed to read 128 MPH. (4) 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
Moment of Additional Wt.		+1419 inch lbs.	
Arm of Additional Wt.		$\frac{1419}{98.0}$ or 14.47 inches	

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 ACA309 or from Current Form ACA337)

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	Wt. (lbs.)	Arm (inches aft of wing leading edge)	Moment (inch lbs.)
For Landplane	790.0	14.82	11708
Add for seaplane	98.0	14.48	1419
Empty weight of seaplane	<u>888.0</u>		<u>13127</u>
C.G. of empty seaplane	$\frac{13127}{888.0}$	or 14.78 inches aft of wing leading edge.	

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#

AERONCA AIRCRAFT CORPORATION


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

WBR:peh