

LUSCOMBE AIRPLANE CORPORATION

MODELS: Luscombe Phantom 1 and 1S

T.C. NUMBER: ATC 552

I - SPECIFICATIONS PERTINENT TO BOTH MODELS

Engine	Warner Super Scarab Series 50
Placard limits	Maximum, except take-off -- in. Hg., 2050 rpm (145 hp) Take-off (one minute) -- in. Hg., 2050 rpm (145 hp)
Propeller	Maximum permissible diameter 89 in.
Fuel capacity	33 gallons (two tanks, one 16-1/2 gallon tank in each wing) (+23)
Oil capacity	3-1/2 gallons (-5)
No. passengers	1 (+25)
Spec. basis	Approved Type Certificate No. 552
Serial Nos.	101 and up manufactured prior to 7/7/41 eligible. Approval expired as of that date.

EQUIPMENT: (Datum is wing leading edge) (* Means net increase)

Class I:

A. Landplane

101. Propeller - adj. metal	62 lbs.	(-38)
102. Engine ring cowl	25 lbs.	(-23)
103. 21 in. streamline wheels (Autofan) with brakes and 4-ply tires		(+6)
104. Tail wheel (4-1/2 in. diameter with solid tire)	6 lbs.	(+182)

B. Seaplane: Items 101 and 102 PLUS

151. Battery (just aft of firewall)	26 lbs.	(-5)
152. Starter (Eclipse Y-150)	20 lbs.	(-12)
153. Generator (Bosch)	10 lbs.	(-15)
154. Edo 44-2425 floats		
155. Auxiliary fin		

Class II:

A. Landplane:

200. Miscellaneous items as noted in approved weight and balance report.

B. Seaplane: Item 200 PLUS

251. Propeller - fixed metal (Curtiss 55511) Net decrease 15 lbs.

Class III:

A. Landplane: Items 151, 152, 153, 251 PLUS

301. Radio (RCA AVR7 series)	20 lbs.	(+68)
302. Landing lights	6 lbs.	
303. Additional instruments	12 lbs.	
304. 8 in. streamline tail wheel		(+182)
305. Bonding and shielding		

306. 6.50-10 wheels with brakes Net decrease 4 lbs. (+6)
307. Tail wheel lock

B. Seaplane: Items 302, 303 and 305 PLUS
351. Battery (just aft of firewall) 10 lbs.* (-5)

NOTE 1. All airplanes of the seaplane type (Model 1S) must have approved wing spoilers approximately 36 inches long installed on the leading edges of both wings. The inboard ends of the spoilers are attached to the first wing ribs inboard of front wing strut attachment fittings (approximately 5 inches inboard of the strut points).

NOTE 2. Landplane baggage may be increased to 112 lbs. when substantiated by actual weight and balance report. This necessitates recheck of C.G. limits for any future change in equipment.

NOTE 3. Eligible for export to all countries except Great Britain, Canada, Australia and New Zealand (July 7, 1941).

II - Model Phantom 1, Designation 2 PCLM

Placard speeds	Level flight or climb - 160 mph True Ind. Glide or dive - 240 mph True Ind. Flaps extended - 149 mph True Ind.
Baggage	66 lbs. (+48) (See NOTE 2)
Standard weight	1950 lbs.
C.G. limits	(+15.25) and (+18.9)

III - Model Phantom 1S, Designation 2 PCaM

Placard speeds	Level flight or climb - 150 mph True Ind. Glide or dive - 200 mph True Ind. Flaps extended - 149 mph True Ind.
Baggage	32 lbs. (+48)
Standard weight	2180 lbs.
C.G. limits	(+18.2) and (+19.6)