

MODELS: Rankin, Porterfield CP-50, 2 PCLM

T.C. NUMBER: T.C. 690

Engine	Continental A-50-4 (See items 201 and 306) (See also NOTE 4)
Engine limits	For all operations - 1900 rpm (50 hp)
Propeller	Maximum permissible diameter 86 inches
Airspeed limits	Level flight or climb - 91 mph True Ind. Glide or dive - 123 mph True Ind.
Fuel capacity	10 gallons (-15)
Oil capacity	1 gallon (in engine) (-30)
No. passengers	1 (+9) or (+35) (See NOTE 2)
Baggage	30 lbs. (+52) (See NOTE 2)
Standard weight	1108 lbs.
C.G. limits	(+11.7) and (+18.7)
Specification basis	Type Certificate No. 690
Serial Numbers	550 and up manufactured prior to 1/8/48 eligible. Approval expired as of that date.

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

Class I:

101.	Propeller - wood (fixed or adj. pitch)	15 lbs.	(-47)
102.	6.00-6 wheels (Shinn 6C2 and 6C4) with 2-ply tires	23 lbs.	(+3)
103.	Carburetor heater	2 lbs.	(-38)
104.	Tail skid spring and shoe	5 lbs.	(+193)
105.	Engine cowl		
106.	Firewall (Ternplate)	10 lbs.	(-20)

Class II:

200.	Miscellaneous items as noted in approved weight and balance report.		
201.	Dual ignition engine		
	(a) Continental A-50-5	10 lbs.*	(-25)
	(b) Continental A-50-8	7 lbs.*	(-25)
202.	Wheel streamlines	9 lbs.	(+6)
203.	Tail wheel		(+195)
	(a) 6x2.00 full swivel with special spring	3 lbs.*	
	(b) 3-3/8 solid rubber	2 lbs.*	
	(c) 6x2.00 steerable with special spring	5 lbs.*	
204.	Brakes		
	(a) Shinn 6C2HB	7 lbs.*	(+3)
	(b) Shinn 6C4HB	7 lbs.*	(+3)
205.	Special upholstery	2 lbs.*	(+40)
206.	Battery installation in engine compartment (Exide 3-AC-7 or 4-AC-7)	13 lbs.	(-27)
207.	Cabin heater	3 lbs.	(-28)
208.	Firewall (stainless steel)	Net decrease 5 lbs.	(-20)
209.	Stainless metal stripping	3 lbs.	(+45)

Class III:

301.	Miscellaneous instruments	Maximum 6 lbs.	(-4)
302.	Carpet	2 lbs.	(+9)
303.	Emergency exit	2 lbs.	(+21)
304.	Skylight		Neglect weight increase
305.	Revised engine mount (for rubber bushed engines)		Neglect weight increase
306.	Continental A-50-7 engine	Net decrease 3 lbs.	(-25)
307.	Engine primer	1 lb.	(-10)
308.	Skis		Use actual weight change
	(a) Air Transport 1468-580		
	(b) Federal SC-1		

NOTE 1. Eligible for export as follows, subject to inspection for equipment specified in Chapter XII of Inspection Handbook:

(a) Canada

- Landplane
- Skiplane - not eligible. However, structure complies with Canadian requirements for ski installation with a maximum ski height of 8-1/2 inches, and a maximum overhang of 1-15/16 inch to outer face of brake plate.

(b) All other countries except Great Britain, Australia and New Zealand.

NOTE 2. For airplanes serial numbers 550 to 559 inclusive, and 561 to 564 inclusive: passenger is at (+10.5) or (+39); baggage (+66). For above noted serial numbers and also numbers 585 and up, following placard required unless otherwise substantiated by weight and balance report: "Solo from front seat only."

NOTE 3. The top fuselage cross tubes on the left-hand side of the airplane just aft of the rear seat and just forward of the instrument panel may be used for leveling means.

NOTE 4. No aircraft of these models shall be eligible for original certification with single ignition engines after 8/1/41. In addition, no aircraft of these models shall be eligible for recertification with single ignition engines unless such aircraft were either previously certificated with single ignition engines or were originally certificated prior to 8/1/41.