

MODELS: Aeronca KF, 50-F, S-50-F

T.C. NUMBER: 698

I - SPECIFICATIONS PERTINENT TO ALL MODELS:

Engine	Franklin 4AC-150 Series 50
Placard limits	Maximum, except take-off
	-- in. Hg., 2300 rpm (50 hp)
	Take-off (one minute)
	-- in. Hg., 2300 rpm (50 hp)
Oil capacity	1 gallon (-31)
No. passengers	1 (+21)
Baggage	40 lbs. (aft of seat) (+45)
Spec. basis	Type Certificate No. 688
	Production Certificate No. 2

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

Class I:

A. Landplane

101.	Propeller - wood (fixed or adj. pitch)	9 lbs.	(-43)
102.	5.00-6 wheels (Shinn 6C4) with tires	21 lbs.	(-1)
103.	Tail skid		
104.	Carburetor air heater	2 lbs.	(-31)
105.	Wheel type control (Drawing 7-35)		
106.	Single magneto - Scintilla		

B. Seaplane - Items 101, 104, 105, 106 PLUS

151.	Edo 60-1320 float installation including auxiliary fin, 169 lbs.	112 lbs.*	(+25)
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Class II:

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

301.	Wheels		(-1)
	(a) 3 in. (Goodyear 3-LMBM) with brakes	10 lbs.*	
	(b) 6.00-6 (Shinn 6C4B or 6C4BE) with brakes	5 lbs.*	
	(c) 3 in. (Goodyear 3-LMBM)	1 lb.*	
302.	Tires		
	(a) 18x8-3 with tubes	4 lbs.*	(-1)
	(b) 16x7-3 with tubes	Neglect weight	
303.	Tail wheel installation		
	(a) Shock cord type with 6x2.00 wheel and pneumatic tire (Dwg. 7-27)	1 lb.*	(+174)
	(b) Leaf spring type with 6 in. wheel and solid tire (Dwg. 4-104)	2 lbs.*	(+180)

	(c) 6x2.00 steerable	3 lbs.*	(+17?)
304.	Cabin heater	2 lbs.	(+23)
305.	Carpet	2 lbs.	(+1)
306.	Magnetos		
	(a) Single Wico or Eisemann Net door	3 lbs.	(-23)
	(b) Dual Scintilla	11 lbs.*	(-23)
	(c) Dual Wico or Eisemann	5 lbs.*	(-23)
307.	Wheel streamlines	8 lbs.	(-1)
308.	Battery	Maximum 20 lbs.	(+48)
309.	Extra door	2 lbs.	(+21)
310.	5 gallon auxiliary fuel tank		
	(See NOTE 1)	10 lbs.	(+29)
311.	Special instruments	6 lbs.	(-1)
312.	Parachutes (one or two)	20 lbs. each	
313.	Radio equipment		
	(a) Receiver (RCA AVR-15 or -15A)	11 lbs.	(-5)
	(b) Receiver (RCA AVR-10 or -10A)	9 lbs.	(-7)
	(c) Receiver (Learadio AMR-1 or AMRL-1)	11 lbs.	(+43)
	(d) Transmitter (Learadio AMT-1)	9 lbs.	(+45)
	(e) Loop antenna	2 lbs.	(+36)
	(f) Trailing antenna	1 lb.	
	(g) "T" type antenna	Neglect weight	
	(h) Reel type trailing antenna	3 lbs.	(+7?)
314.	Anchor and rope	7 lbs.	(+2)
315.	Ski type axle (Dwg. 3-43 or 3-44)	Neglect weight	
316.	Landing lights (Grimes ST-250)		
	One or two	5 lbs. each	(+17)
317.	Stick type control (Dwg. 7-70)	No weight change	
318.	Parking brake installation	1 lb.*	(-6)
319.	Generator - wind-driven		
	(Air Assoc. G-6 or G-12)	8 lbs.	(+9)
320.	Seaplane fittings	Neglect weight	
321.	Steps (two)	Neglect weight	
322.	Skis	Use actual weights	
	(a) Washington Aircraft 1200		
	(b) Federal SA-1 or SA-2		
	(c) Federal SC-1 or SC-2		
	(d) Marston MFS-1200		
	(e) Marston MFS-1600		
	(f) Jennings TY-2		
	(g) Richards 1-B		
	(h) Graf-Shupe A		
	(i) Heath 655		
323.	Oil Filter, Fram PB-5	4 lbs.	(-31)
	(Models 50-F and S-50-F only)		
	Fram Installation Drawing No. 61552		
	Weight includes 1 quart of oil.		

NOTE 1. Fuel arm (+48) with item 310.

NOTE 2. Eligible for export as follows, subject to provisions of Chapter XII of Inspection Handbook: (6-2-41)

- (a) Canada  
 Landplane - eligible  
 Skiplane - not eligible. However, structure complies with Canadian requirements for ski installation when item 315 is installed, with tread not exceeding that with wheels and a maximum ski height of 12 in.  
 Seaplane - maximum weight 1253 lbs.
- (b) Australia  
 Landplane only.
- (c) All other countries except New Zealand.

NOTE 3. If empty weight C.G. for a particular airplane falls within range given, it is unnecessary to check critical forward and aft C.G. positions. These ranges are not valid for non-standard arrangements.

## II - MODEL KP, 2 PCLM:

Propeller	Maximum permissible diameter 81 in.
Placard speeds	Level flight or climb - 100 mph True Ind. Glide or dive - 135 mph True Ind.
Fuel capacity	10 gallons (-10)
Maximum weight	1150 lbs.
C.G. range	(+13.4) to (+20.5)
Empty weight	(+14.0) to (+20.4) (Item 310 not installed)
C.G. range	(See NOTE 3) (+14.0) to (+18.2) (Item 310 installed)
Serial Nos.	KP-1 and up manufactured prior to 12-11-42 eligible. Approval expired as of that date.

III - MODEL 50-F, 2 PCLM:

(Same as KF except for wider cabin. No structural change.)

Propeller	Maximum permissible diameter 81 in.
Placard speeds	Level flight or climb - 100 mph True Ind. Glide or dive - 135 mph True Ind.
Fuel capacity	12 gallons (-10)
Maximum weight	1150 lbs.
C.G. range	(+13.4 to +20.09)
Empty weight	(+14.5) to (+20.7) (Item 310 not installed)
C.G. range	(+14.5) to (+18.5) (Item 310 installed) (See NOTE 3)
Serial Nos.	F-1018 and up manufactured prior to 12-11-42 eligible. Approval expired as of that date.

IV - MODEL S-50-F, 2PCSM:

Propeller	Maximum permissible diameter 76 in.
Placard speeds	Level flight or climb - 95 mph True Ind. Glide or dive - 129 mph True Ind.
Fuel capacity	12 gallons (-10)
Maximum weight	1253 lbs.
C.G. range	(+14.3) to (+21.4)
Empty weight	(+15.0) to (+21.0) (Item 310 not installed)
C.G. range	(+15.0) to (+18.8) (Item 310 installed) (See NOTE 3)
Serial Nos.	F-1018 and up manufactured prior to 12-11-42 eligible. Approval expired as of that date.

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