

MODELS: Fairchild 24K (Army UC-61E) and 24 KS, 4 PCL-SM

T.C. NUMBER: 667

I - Specifications Pertinent to Both Models:

Engine	Ranger 6-410-B1, -B1A, -B2, -B2A, -B2E, or -B3
Placard limits	For all operations: 2450 rpm (165 hp)
Placard speeds	Level flight or climb - 137 mph True Ind. Glide or dive - 185 mph True Ind. Flaps extended - 94 mph True Ind.
Fuel capacity	40 gallons (two tanks 20 gallons in each wing) (*24)
Oil capacity	3 gallons (-22)
No. passengers	3 (front +20, rear +50)
Baggage	170 lbs. (140 lbs. aft of cabin, 30 lbs. under rear seat)
Certification basis	Type Certificate No. 667
Serial Nos.	3300 and up manufactured prior to 4/27/43 and all AAF Nos. eligible. Approval expired as of 4/27/43.

EQUIPMENT:

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

Class I:

A. Landplane			
101.	Generator (Elec. Spec. NA-1) and cutout	17 lbs.	(-15)
102.	Battery (Exide 6-TS-7-1)	25 lbs.	(-26)
103.	Starter (Eclipse Y-150)	18 lbs.	(-16)
104.	6.50-10 wheels (Warner 3270) and tires	55 lbs.	(-1)
105.	8 in. streamline tail wheel with heavy duty 6-ply tire (Wheel must be placarded for this size tire.)		(+206)
106.	Oil cooler (Harrison No. 3074410)	11 lbs.	(-23)
107.	Hub streamlines	7 lbs.	(0)
108.	Propeller - wood (fixed pitch)	28 lbs.	(-63)
E. Seaplane:	Items 101, 102, 103, 106, 108, 207 PLUS		
151.	Edo 45-2880 floats with water rudders	369 lbs.	
152.	Seaplane fin	5 lbs.	(+197)

Class II:

Landplane and Seaplane			
200.	Miscellaneous items as noted in approved weight and balance report.		
201.	Parachute front seats		
	(a) Irvin	35 lbs.	(+28)
	(b) Switlik	30 lbs.	(+28)
202.	Flares (three 1-1/2 minute)	20 lbs.	(+46)
203.	Metallizing and corrosion proofing	12 lbs.	(+39)
204.	Corrosion proofing	3 lbs.	(+39)
205.	Radio equipment		
	(a) Receiver (RCA AVR-7 Series) (Chassis under pilot seat)	34 or 35 lbs.	(+18) or (+51)
	(b) Receiver (RCA AVR-10 Series) (Chassis at instrument panel)	11 lbs.	(+9)
	(c) Lear R-3 receiver and Lear T-30 transmitter (Receiver and transmitter at instrument panel, power unit under front seat)	30 lbs.	(+10)
	(d) Receiver (Western Electric 17A)	26 lbs.	(+10)
	(e) Compass (Fairchild RC-4)	62 lbs.	(+46)
	(f) Compass (RCA AVR-3D)	61 lbs.	(+52)
	(g) Radio Compass (RCA AVR-8E)	68 lbs.	(+50)
	(h) Trailing antenna (Aero. Radio)	9 lbs.	(+106)
206.	Pressure fire extinguisher (Lux No. 5)	18 lbs.	(+44)
207.	Seaplane fittings		Neglect weight increase
208.	Generators		
	(a) Wind-driven (Air Associates GE-20)	Net decrease 9 lbs.	(+6)
209.	(a) Wheel streamlines	12 lbs.*	(+1)
	(b) Wheel fenders	4 lbs.*	(+1)
210.	Propeller - fixed pitch metal (Curtiss)	19 lbs.*	(-63)
211.	Engine shielding	5 lbs.	(-29)
212.	Landing lights		
	(a) One or two (Grimes ST-250)	4-1/2 lbs. each	(+16)
	(b) Two (Adams-Westlake A-6)	2 lbs.	(+2)
213.	Cabin heater	4 lbs.	(-24)
214.	Cabin ventilator	2 lbs.	(-8)
215.	Dual brake controls	5 lbs.*	(-10)
216.	Miscellaneous extra instruments		
217.	Quick release door hinges	1 lb.	(+7)
218.	Special cabin trim	4 lbs.*	(+37)
219.	Special exterior finish	3 lbs.*	(+45)
220.	Flaps and controls	39 lbs.*	(+50)
221.	Steerable tail wheel installation	2 lbs.*	(+197)
222.	Battery (Exide 6-TS-13-1)	11 lbs.*	(-26)
223.	7.50-10 4-ply tires and tubes	6 lbs.*	(-1)
224.	Two wing fuel tanks, 30 gallons each (replacing standard tanks)	17 lbs.*	(+24)
225.	Skis		
	(a) Pollack P-3		
	(b) Grab and Smith GS-5		

Class III:

None

NOTE 1. Inasmuch as the lower longerons, between stations 2 and 2-3/4, of serial numbers 3300 and 3301 incorporate special (over-strength) tubing, the manufacturer must be contacted before these members are repaired or replaced.

NOTE 2. Eligible for export as follows subject to inspection for equipment

specified in Chapter XII of Inspection Handbook (4/27/43):

- (a) Canada
 - Landplane and Seaplane
 - Skiplane - not eligible. However, structure complies with Canadian ski gear requirements with maximum ski height of 9.25 in. and with an overhang on the axle not exceeding that when wheels are installed.
- (b) Australia - Landplane.
- (c) All other countries except New Zealand.

NOTE 3. Prior to certification of any UC-61 Series airplane having uncertificated position lights, these lights should be replaced with approved types. In the event that Air Force Type A-2 wing tip lights are installed, these lights may be used provided the sand-blasted surface on the inside of the cover glass is painted black.

II- Model 24K (UC-61E - See NOTE 3), 4 PCLM:

Propeller	Maximum permissible diameter 107 in.
Standard weight	2550 lbs.
C.G. limits	(+16.4) and (+24.6)

III - Model 24KS, Designation 4 PCSM:

Propeller	Maximum permissible diameter 105 in.
Standard weight	2750 lbs.
C.G. limits	(+16.8) and (+23.5)