

MODELS: Waco YKS-7 (Army UC-72K) and ZKS-7 (Army UC-72M)

I.C. NUMBER: 626

I - SPECIFICATIONS PERTINENT TO ALL MODELS:

Propeller	Maximum permissible diameter 107 inches (for clearance)
Placard speeds	Level flight or climb - 140 mph True Ind. Glide or dive - 168 mph True Ind.
Fuel capacity	70 gallons (two 35 gallon tanks in upper wings) (-11.5)
Oil capacity	5 gallons (-44)
NO. passengers	4 (1 at -2.5, 3 at +27) (crew at -2.5)
Baggage	100 lbs. (+45)
Standard weight	Landplane 3250 lbs. Seaplane 3540 lbs.
C.G. limits	Landplane (-14.4) and (-2.5) Seaplane (-12.9) and (-3.7)
Datum	Lower wing leading edge
Leveling means	Lower surface upper wing at strut points
Certification basis	Type Certificate No. 626 (Aero. Bulletin 7A)

Production basis None (See NCTE A)
 Serial numbers 4551 and up per NOTE A and all AAF numbers of Models
 UC-72K and UC-72M. Use manufacturer's number when
 available.

EQUIPMENT:
 (* Means net increase)

Class I:
 Landplane:

101.	Engine ring cowl	27 lbs.	
102.	Starter (Eclipse E-80)	20 lbs.	(-51)
103.	Generator		
	(a) Bosch LE70/12 (YKS-7) (See NOTE 3)	13 lbs.	(-54)
	(b) Eclipse LV-180 (ZKS-7) (See NOTE 3)	18 lbs.	(-54)
104.	Battery (Reading ARL-11)	35 lbs.	(-44)
105.	7.50-10 wheels (Hayes 750M) with 8.50-10 tires		
106.	10x3 tail wheel		
107.	Oil cooler		
108.	Wheel cuffs		
109.	Rocoteen upholstery		
110.	Gunmetal gray paint		
111.	Propeller - wood (fixed pitch) including hub		
	(a) Model YKS-7	42 lbs.	
	(b) Model ZKS-7	46 lbs.	

Seaplane: (Items 101, 102, 103, 104, 107, 109, 110 and 111 PLUS)
 151. Edo model 38-3430 floats with
water rudders
and
152. Seaplane type vertical tail surfaces
replacing landplane type 335 lbs.*

Class II:

200.	Miscellaneous items as noted in approved weight and balance report.		
201.	Large starter (Eclipse F-141)	10 lbs.*	(-53)
202.	Large generator		
	(a) Eclipse D-2 (YKS-7)	13 lbs.*	(-54)
	(b) Eclipse LV-180 (YKS-7)	8 lbs.*	
	(c) Eclipse G-2 (YKS-7)	5 lbs.*	
	(ZKS-7)	8 lbs.*	(-54)
203.	Pressure fire extinguisher	3 lbs.*	(-36) or (+12)
204.	Oil heater	3 lbs.	
205.	Leather upholstery	5 lbs. to 12 lbs.*	(+7)
206.	Litter installation	25 lbs.*	(+97)
207.	100 gallon fuel capacity (two 15 gallon tanks in lower wings) and 6-1/2 gallon oil capacity	35 lbs.*	
208.	Propeller - Hamilton Standard adjustable metal		
	(a) YKS-7	36 lbs.*	(-79)
	(b) ZKS-7	32 lbs.*	(-79)
209.	Rear parachutes or parachute type seats		
210.	Large battery (Exide)	7 lbs.*	(-44)
211.	Propeller - (a) (YKS-7) Hamilton Standard hub 2B20, blades 6109A-6 to 6109A-16, inclu- sive, or 6135A-6 to 6135A-16, inclusive. Diameter 8'6" maximum, 7'7" minimum.	104 lbs.	

Class III:

301.	Wheel streamlines	21 lbs.	(-24)
302.	Cactus proof tubes	10 lbs.*	(-28)
303.	"Y" type control column (inspector should specify type installed)	3 lbs.*	(-24)
304.	Miscellaneous extra instruments and panel	25 lbs.	(-34)
305.	Propeller - fixed pitch metal (Curtiss 55501)		
	(a) YKS-7	9 lbs.*	(-79)
	(b) ZKS-7	5 lbs.*	(-79)
306.	Flares		
	(a) Three 1-1/2 minute	17 lbs.	(+70)
	(b) Five 1 minute	13 lbs.	(+70)

307.	Landing lights (Grimes retractable)	11 lbs.	(+7)
308.	Engine shielding	11 lbs.	(-75)
309.	Radio (under rear passenger seat)	52 lbs.	(+27)
310.	Extra door and wing walk	16 lbs.*	(+19)
311.	Special paint	Maximum 44 lbs.*	(+27)
312.	Tail wheel lock	Neglect increase	
313.	Cabin ventilators	3 lbs.*	
314.	Cabin heater	5 lbs.*	(-51)
315.	Soundproofing		
316.	Air brakes	10 lbs.*	
317.	(a) Jacobs L-4M engines installation (magneto ignition) (YKS-7)	15 lbs.*	
	(b) Jacobs L-4MB engine installation (magneto and battery ignition) (YKS-7)	8 lbs.*	
	(c) Jacobs L-6M engine installation (magneto ignition) (ZKS-7)	15 lbs.*	
	(d) Jacobs L-5MB engine installation (magneto and battery ignition) (ZKS-7)	8 lbs.*	
318.	Front parachutes or parachute type seats		
319.	Wide type landing gear - tread 103-1/2 inches	No weight change	
320.	Revised engine cowl (Drawing 21987)		
321.	Revised windshield		
322.	Steerable tail wheel (Drawing 23143)	Neglect weight increase	
323.	Skis (use actual weight)		
	(a) Grab and Smith GS-1		
	(b) Federal SC-6		

NOTE A. Each aircraft of Models YKS-7 and ZKS-7 manufactured after 4/13/43, must, prior to original certification, satisfactorily pass:

- (a) An inspection for workmanship, materials and conformity before any covering, metal priming or final finish is applied. All woodwork may be varnished.
- (b) A final inspection of the completed aircraft.
- (c) A check of the flight characteristics.

NOTE 1. Same as YKS-6 or ZKS-6 (ATC 533) except wing fittings, landing gear moved forward 4 inches, fixed trim tab added to rudder, miscellaneous changes in fuselage and controls.

NOTE 2. 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 when equipped with special axle per Waco Drawing No. 20243 and tread with skis is equivalent to that with wheels. Maximum ski height 13 inches.
 - Seaplane - maximum standard weight 3430 lbs.
- (b) All other countries except Australia and New Zealand.

NOTE 3. Item 103(a) or (b) may be removed when item 317(a) or (c) is installed.

II - MODEL YKS-7 (UC-72K), DESIGNATION 5 PCL-SB

Engine	Jacobs L-4
Placard limits	For all operations, 2000 rpm (225 hp)

III - MODEL ZKS-7 (ARMY UC-72M), DESIGNATION 5 PCL-SB

(Same as YKS-7 except engine. Empty weight approximately 35 lbs. greater than YKS-7.)

Engine	Jacobs L-5
Placard limits	Take-off and climb 2000 rpm (285 hp) For all other operations 1910 rpm (250 hp)