

MODELS: Waco AQC-6, YQC-6, ZQC-6 (Army UC-72H)

T.C. NUMBER: 598

I - SPECIFICATIONS PERTINENT TO ALL MODELS

Placard speeds	Landplane: Level flight or climb - 158 mph True Ind. Glide or dive - 214 mph True Ind. Flaps extended - 108 mph True Ind. Level flight or climb - 144 mph True Ind.
Fuel capacity	Seaplane: Glide or dive - 214 mph True Ind. Flaps extended - 108 mph True Ind. 70 gallons (two tanks, one 35 gallon in each wing) (-14)
Oil capacity	5 gallons (-50)
No. passengers	4 (front (-13), rear (+22))
Baggage	Passenger type 100 lbs. (+52) Cargo type - 800 lbs. (See Item 202)
C.G. limits	Landplane (-22.4) and (-6.7) Seaplane (-18.2) and (-7.3)
Datum	Lower wing leading edge
Leveling means	Lower surface upper wing at strut points
Certification basis	Type Certificate No. 598
Production basis	None (See NOTE A)
Serial numbers	4385 and up per NOTE A and all AAF numbers of model UC-72H eligible

EQUIPMENT:
(* Means net increase)

Class I:
Landplane:
101. Engine ring cowl

	(a) YQC-6 and ZQC-6	22 lbs.	(-77)
	(b) AQC-6	32 lbs.	(-77)
102.	Landing lights (Grimes retractable)	11 lbs.	
103.	Starter	21 lbs.	
104.	Battery	42 lbs.	(-59)
105.	Cabin heater	2 lbs.	
106.	Wheel cuffs	4 lbs.	
107.	6.50-10 wheels with 7.50-10 tubes and 8.50-10 tires) (wheels must be placarded for these tubes and tires)		
108.	10.5 inch streamline tail wheel		
109.	Throw-over control column		
110.	Generator	12 lbs.	(-55)
111.	Standard paint (blue)	11 lbs.	(+17)
112.	Propeller - fixed pitch metal (Curtiss 55501)		(-92)
113.	Oil cooler (Models AQC-6 and ZQC-6)		
Seaplane: (Items 101 thru 105, 109 thru 113 PLUS)			
151.	Edo 38-3430 floats with water rudder	481 lbs.	(-14)
152.	Water rudder control	4 lbs.	
153.	Additional fin (under fuselage)	10 lbs.	(+191)
Class II:			
200.	Miscellaneous items as noted in approved weight and balance report.		
201.	Rear parachute seats	40 lbs.	(+27)
202.	Cargo type with cargo compartment and large baggage door	36 lbs.*	
Class III:			
301.	Oil cooler (Model YQC-6) (See Item 113)	5 lbs.	(-88)
302.	(a) 95 gallon fuel capacity (two tanks at 47-1/2 gallons each)	18 lbs.	(-14)
	(b) Additional 25 gallon fuel tank installed under rear seat (including gage and wobble pump) (eligible as 4-place type only)	23 lbs.	
303.	6 or 7-1/2 gallon oil capacity		(-50)
304.	Wheel streamlines	18 lbs.*	(-27)
305.	Leather upholstery	Up to 27 Lbs.*	(0)
306.	Litter	14 lbs.	(+72)
307.	Engine shielding	6 or 11 lbs.	(-68)
308.	Radio equipment		
	(a) 82 lbs. provided C.G. of installation is between (-18) and (+33)		
	(b) 72 lbs. provided C.G. of installation is between (-18) and (+52)		
309.	Special paint	Up to 45 lbs.	(+17)
310.	Oversize generator (Eclipse D-2)	26 lbs.	(-55)
311.	Oversize starter	10 lbs.*	(-55)
312.	Miscellaneous extra instruments	25 lbs.	(-43)
313.	Remote control fire extinguisher	15 lbs.	(-45)
314.	Tail wheel lock	Neglect weight increase	
315.	Flares (three 1-1/2 minute)	17 lbs.	(+78)
316.	Extra door and wing walk	16 lbs.	(+19)
317.	"Y" type control column	5 lbs.	(-33)
318.	Propellers		
	(a) Controllable metal (Hamilton Standard hub 2B20, blades 6109A or 6135A) (105 lbs.)	54 lbs.*	(-92)
	(b) Adjustable metal (79 lbs.)	28 lbs.*	(-92)
	(c) Controllable metal (Eclipse hub 2999, blades SK-1496) (125 lbs.)	74 lbs.*	(-92)
	(d) Wood - fixed pitch (46 lbs.)	Net decrease 5 lbs.	(-92)
319.	Front parachute seats	34 lbs.	(-8)
320.	Seaplane equipment	6 lbs.	
321.	Sleeping bag compartment	9 lbs.*	(+72)
322.	Larger battery (Reading)	51 lbs.	(-59)
323.	Edo 39-4000 floats with water rudder	44 lbs.*	(-13)
324.	7.50-10 wheels		
325.	Emergency exit in roof (rip panel)	Neglect weight	
326.	Skis (use actual weight change)		
	(a) Grab and Smith or Wien GS-1		
	(b) Fairbanks MF-2		

NOTE A. Each aircraft 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. 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 special axle per Waco Drawing 20243 is installed. Maximum ski height 13 inches, tread 85-1/2 inches. Maximum standard weight as noted for landplane.
 - Seaplane - maximum standard weight:
 - With Edo 38-3430 floats 3430 lbs.; with Edo 39-4000 floats 3800 lbs.
- (b) All other countries except Australia and New Zealand.

NOTE 2. Same as Model QQC-6, ATC 597, except engine and engine mount, and battery location.

II - MODEL YQC-6, DESIGNATION 5 PCLF

Engine	Jacobs L-4 (battery ignition), L-4M (magneto ignition) or L-4MB (magneto and battery ignition)
Placard limits	For all operations, 2000 rpm (225 hp)
Standard weight	3500 lbs.

III - MODEL ZQC-6 (UC-72H), DESIGNATION 5 PCL-SB

(Same as Model YQC-6 except engine)

Engine	Jacobs L-5 (battery ignition), L-5M (magneto ignition), or L-5MB (battery and magneto ignition)
Placard limits	For all operations, 2000 rpm (285 hp)
Standard weight	Landplane: 3500 lbs. (serials below 4700) 3650 lbs. (serials below 4700 and up - Serials below 4700 eligible upon receipt of manufacturer's affidavit of conformity.) Seaplane: 3610 lbs. (with Edo 38-3430 floats) 3800 lbs. (Serials 4700 and up with Edo 39-4000 floats - Serials below 4700 with 39-4000 floats eligible when fuselage member 29 reinforced in accordance with Waco Drawing SK-404.)

IV - MODEL AQC-6, DESIGNATION 4 or 5 PCL-SB

Engine	Jacobs L-6 (battery ignition), L-6M (magneto ignition), or I-6MB (magneto and battery ignition)
Placard limits	Maximum, except take-off (S.L.) 24.5 in.Hg., 2100 rpm (300 hp) (Straight line manifold pressure variation with altitude to 3700 ft.) 23.5 in.Hg., 2100 rpm (300 hp) Take-off (one minute) 26.0 in.Hg., 2200 rpm (330 hp)
Standard weight	Landplane: 3500 lbs. (Serials below 4700) 3650 lbs. (Serials 4700 and up - Serials below 4700 eligible upon receipt of manufacturer's affidavit of conformity.) Seaplane: 3610 lbs. (with Edo 38-3430 floats) 3800 lbs. (Serials 4700 and up with Edo 39-4000 floats. Serials below 4700 with 39-4000 floats eligible when fuselage member 29 reinforced in accordance with Waco Drawing SK-404.)