

MODEL : Waco YPF, YPF-6, YPF-7, ZPF-6, ZPF-7

I.C. NUMBER: ATC 586

I - SPECIFICATIONS PERTINENT TO ALL MODELS

Placard speeds	Level flight or climb - 158 mph True Ind. Glide or dive - 214 mph True Ind.
Propeller	Maximum permissible diameter 99 inches
Fuel capacity	50 gallons (two tanks in center section at 25 gallons) (-13)
Oil capacity	4 gallons (-50)
No. passengers	2 (-4)
Baggage	100 lbs. aft rear cockpit (+69)

Standard weight	25 lbs. forward of front cockpit (-23) Landplane 2650 lbs. Seaplane 2880 lbs.
C.G. limits	Landplane (-12.6) and (-4.0); Seaplane (-14.2) and (-2.8)
Datum	Lower wing leading edge
Leveling means	Lower surface upper wing at strut points
Specification basis	Approved Type Certificate No. 586
Serial numbers	4250 and up (6 series) and 4650 and up (7 series) manufactured prior to 2/28/41 eligible. Approval expired as of that date.

EQUIPMENT:
(* Means net increase)

Class I:
Landplane:

101.	Engine ring cowl (See NOTE 3)	28 lbs.	
102.	Starter (Eclipse E-80)	20 lbs.	
103.	Battery (Reading ARL-11)	35 lbs.	
104.	6.50-10 (Hayes 650M) or 7.50-10 (Hayes 7.50M) wheels and 7.50-10 tires		
105.	10-1.2 inch streamline tail wheel		
106.	Generator		
	(a) Bosch LE-70/12R5 (Y series)	13 lbs.	(-47)
	(b) Eclipse LV-180 (Z series)	18 lbs.	(-47)
107.	Propeller - fixed metal (Curtiss 55501)	55 lbs.	(-77)

Seaplane (Z series only): Items 101, 102, 103, 106, and 107 PLUS
151. Edo 45-2880 floats with water rudders Approximately 237 lbs.*

Class II:

200.	Miscellaneous items as noted in approved weight and balance report		
201.	Miscellaneous extra instruments	Maximum 25 lbs.	(-21)

Class III:

301.	Wheel streamlines		
	(a) Pants	25 lbs.	(-23)
	(b) Cuffs	4 lbs.	(-23)
302.	Landing lights (Grimes retractable)	11 lbs.*	
303.	Flares (three 1-1/2 minute)	17 lbs.*	(+100)
304.	One or two extra 12-1/2 gallon fuel tank in upper wing	Each 15 lbs.*	(-13)
305.	4-3/4 gallon oil tank	No weight change	
306.	Miscellaneous extra instruments	Maximum 25 lbs.	(+15)
307.	Starter		
	(a) Hand inertia	2 lbs.*	(-47)
	(b) Eclipse F-141	10 lbs.*	(-47)
308.	Generator		
	(a) Eclipse LV-180 (Y series)	5 lbs.*	(-47)
	(b) Eclipse G-2 (Y series)	8 lbs.*	(-47)
	(Z series)	3 lbs.*	(-47)
	(c) Eclipse D-2 (Y series)	13 lbs.*	(-47)
	(Z series)	8 lbs.*	(-47)
309.	Shielding	11 lbs.	(-60)
310.	Adjustable single front seat	7 lbs.*	(-4)
311.	Front cockpit cover	6 lbs.*	(-4)
312.	8.50-10 tires	5 lbs.*	(-18)
313.	Cactus proof tubes	10 lbs.	(-18)
314.	Coupe top	15 lbs.*	(+42)
315.	Propellers		(-77)
	(a) Wood		
	(Y series)		Net decrease 9 lbs.
	(Z series)		Net decrease 12 lbs.
	(b) Adjustable metal		
	(Y series)	27 lbs.*	
	(Z series)	23 lbs.*	
316.	Special paint		
317.	Tail wheel lock		
318.	Parachute or parachute type seats		
319.	Leather upholstery		
320.	Radio (Seaplane only) 70 lbs. provided C.G. of installation is between upper wing leading edge and baggage compartment.		

NOTE 1. Eligible for export as follows, subject to inspection for equipment

specified in Chapter XII of Inspection Handbook (7/12/37):

- (a) Canada
 - Landplane
 - Skiplane - not eligible.
 - Seaplane - not eligible.
- (b) All other countries except Great Britain and Australia.

NOTE 2. 7 Series same as 6 series except for brake system and miscellaneous structural changes. YPF-6 same as YPF.

NOTE 3. Model YPF-7, serial numbers 5320 and up, also eligible with upper wing center section output enlarged, upper wing dihedral eliminated, wide type landing gear (tread 100-3/4 inches), minor structural changes and without ring cowl (Item 101).

NOTE 4. Models YPF-6 and ZPF-6 eligible for use in acrobatic stages of Civilian Pilot Training secondary course when operated in accordance with "Instructions for the operation of Waco YPF-6 (or ZPF-6) in the acrobatic stages of the Civilian Pilot Training Program Secondary Course" issued by Civilian Pilot Training.

I - MODELS YPF, YPF-6 and YPF-7, DESIGNATION 3 POLB

Engine	Jacobs L-4, L-4M (magneto ignition) or L-4MB (magneto and battery ignition)
Placard limits	Maximum, except take-off
	-- in.Hg., 2000 rpm (225 hp)
	Take-off (one minute)
	-- in.Hg., 2000 rpm (225 hp)

II - MODELS ZPF-6 AND ZPF-7, DESIGNATION 3 POL-SB

(Same as Models YPF-6 and YPF-7 except engine installation. Empty weight approximately 35 lbs. greater.)

Engine	Jacobs L-5, L-5M (magneto ignition) or L-5MB (magneto and battery ignition)
Placard limits	Maximum, except take-off
	-- in.Hg., 2000 rpm (285 hp)
	Take-off (one minute)
	-- in.Hg., 2000 rpm (285 hp)