

MODELS: Waco AVN-8 and ZVN-8

T.C. NUMBER: 677

I - SPECIFICATIONS PERTINENT TO ALL MODELS

Propeller	Maximum permissible diameter 102 inches
Placard speeds	Level flight or climb - 158 mph True Ind. Glide or dive - 213 mph True Ind. Flaps extended - 100 mph True Ind.
Fuel capacity	70 gallons (two tanks at 35 gallons) (-14)
Oil capacity	6 gallons (-50)
No. passengers	4
Baggage	100 lbs. (+52)
C.G. limits	(-18.3) and (-7.5)
Certification basis	Type Certificate No. 677
Production basis	None (See NOTE A)

Serial Nos. 5018 and up eligible (See NOTE A)

EQUIPMENT: (Datum is lower wing leading edge) (*Denotes net increase)

Class I:

101.	Engine ring cowl	29 lbs.	(-77)
102.	Starter (Eclipse E-80)	20 lbs.	(-55)
103.	Generator	18 or 21 lbs.	(-55)
104.	Battery (Exide)	42 lbs.	(-43)
105.	Wheel streamlines (3)	30 lbs.	
106.	Landing lights	11 lbs.	(-23)
107.	Oil cooler	5 lbs.	
108.	Wing root and strut fairing		
109.	Landing gear: (Hydraulic brakes)		
	(a) Front - 6.50-10 wheel with 7.50-10 tire		
	(b) Rear - 7.50-10 wheels with 8.50-10 tires (Wheels must be placarded for these tires.)		
110.	Propeller - fixed pitch metal - Curtiss 55501	51 lbs.	(-92)
111.	Carburetor heater		
112.	Throw-over type control column		

Class II:

200.	Miscellaneous items as noted in approved weight and balance report.		
201.	25 gallon fuel tank installation (under rear seat in 4-place type only)	23 lbs.	(+9)
202.	7-1/2 gallon oil tank	Neglect increase	
203.	Litter		
	(a) Air Corps type	25 lbs.	(+72)
	(b) Precision (carried) as baggage in baggage compartment)	25 lbs.	
204.	Parachute seats		
	(a) Rear	41 lbs.*	(+27)
	(b) Front	30 lbs.*	(-13)
205.	Extra door and wing walk	16 lbs.*	(+19)
206.	Larger battery (Reading AR-9)	8 lbs.*	(-59)
207.	Cargo type with cargo compartment and large baggage door (loading instructions required)		
208.	Tail wheel lock	Neglect increase	
209.	Cactus proof tubes	12 lbs.*	(-27)
210.	Vacuum pump	4 lbs.	(-53)

Class III:

301.	"Y" type control column	4 lbs.*	(-33)
302.	Additional instruments	40 lbs.	(-43)
303.	Optional generator (25 amp)	8 lbs.*	(-55)
304.	Optional starter	10 lbs.*	(-55)
305.	Engine shielding	11 lbs.	(-75)
306.	Pressure fire extinguisher	15 lbs.	(-53)
307.	Radio equipment		
	(a) 32 lbs. provided that C.G. of installation is between (-43) and (-7.5)		
	(b) 56 lbs. provided that C.G. of installation is between (-18.3) and (+25)		
308.	Leather upholstery	10 lbs.*	(0)
309.	Flares (three 1-1/2 minute)	17 lbs.	(+79)
310.	Special paint	Up to 46 lbs.*	(+17)

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| 311. | 95 gallon fuel capacity (two tanks at 47.5 gallons) | 18 lbs.* | (-14) |
| 312. | (a) Propeller - Hamilton Standard 2B20 hub, 6135A-9 or 6135A-10 blades. Diameter 8'3-1/8" maximum, 8'7/8" minimum. | 53 lbs.* | (-92) |
| | (b) Constant speed control | 10 lbs. | (-55) |
| 313. | Upper wing flaps only | | |
| 314. | Hydraulic snubber (nose wheel) | | |

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.
- (b) All other countries except Australia and New Zealand.

II - MODEL AVN-8, DESIGNATION 5 PCLB

Engine	Jacobs L-6, L-6M or L-6MB
Placard limits	Maximum, except take-off (Straight line manifold pressure variation with altitude to 3700 ft.) 23.5 in.Hg., 2100 rpm (300 hp) (Sea level) 24.5 in.Hg., 2100 rpm (300 hp) Take-off (one minute) 26.0 in.Hg., 2200 rpm (330 hp)
Standard weight	3800 lbs.

III - MODEL ZVN-8, DESIGNATION 5 PCLB

Engine	Jacobs L-5, L-5M or L-5MB
Placard limits	For all operations, 2000 rpm (285 hp)
Standard weight	3800 lbs.