

MODELS: Waco DGC-7, EGC-7

I.C. NUMBER: ATC 639

I - SPECIFICATIONS PERTINENT TO ALL MODELS

Propeller	Maximum permissible diameter 103 inches
Placard speeds	Level flight or climb - 158 mph True Ind. Glide or dive - 214 mph True Ind. Flaps extended - 100 mph True Ind.
Fuel capacity	70 gallons (2 tanks, one in each wing at 35 gallons) (-14)
Cil capacity	5 gallons (-50)
No. passengers	4 (front -13, rear +22)
Baggage	(Passenger type) 100 lbs. (+52) (Cargo type) (See NOTE 1)
C.G. limits	(-18.9) and (-6.0)
Specification basis	Approved Type Certificate No. 639
Serial numbers	4550 and up manufactured prior to 2/28/41 eligible. Approval expired as of that date.

EQUIPMENT:

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

Class I:

101.	Engine ring cowl	29 lbs.	
102.	Landing lights (Grimes retractable)	11 lbs.	
103.	Starter (direct electric)	20 lbs.	
104.	Battery (Reading ARL-11)	35 lbs.	(+26)
105.	Heater and ventilator		
106.	Wheel cuffs		
107.	7.50-10 wheels (Hayes 750M hydraulic) with 7.50-10 tubes and 8.50-10 tires) (wheels must be placarded for these tires)		
108.	Tail wheel - 10.5 inch streamline or 10x3 (with 4-ply HD tire)		
109.	Throw-over type control column		
110.	Breeze engine shielding (ECG-7 only)		

111.	Standard paint (gunmetal gray)		
112.	Oil cooler (Drawing 20965)		(-89)
113.	Propeller - fixed metal		
	(a) Curtiss 55501 (Model DGC-7)	55 lbs.	
	(b) Curtiss 55503 (Model EGC-7)	72 lbs.	

Class II:

200.	Miscellaneous items as noted in approved weight and balance report.		
201.	Air Corps type litter	25 lbs.	(+72)
202.	Parachute seats - rear	41 lbs.*	(+27)
203.	Cargo type with cargo compartment and large baggage door (See NOTE 1)	36 lbs.*	

Class III:

301.	95 gallon fuel capacity (2 tanks at 47.5 gallons each)	18 lbs.*	(-14)
302.	Additional 25 gallon fuel tank installed under rear seat (including gage and wobble pump) (eligible as 4-place type only)	23 lbs.	(+9)
303.	6 or 7-1/2 gallon oil capacity		(-50)
304.	Wheel streamlines	22 lbs.	(-27)
305.	(a) Leather upholstery	12 lbs.	(0)
	(b) Leather seats	5 lbs.	(0)
306.	Precision litter (carried in baggage compartment as baggage)	25 lbs.	
307.	Engine shielding (DGC-7 only)	11 lbs.	(-64)
308.	Radio equipment		
	(a) 94 lbs. provided C.G. of installation is between (-19) and (+41)		
	(b) 56 lbs. between (-19) and (+52) and 38 lbs. between (-19) and (+25)		
309.	Special paint		(+17)
	(a) Aluminum	No weight change	
	(b) Blue	7 lbs.*	
	(c) Black	36 lbs.*	
	(d) Vermillion	40 lbs.*	
	(e) White	48 lbs.*	
	(f) French grey	51 lbs.*	
310.	Generators		
	(a) (Bosch LE/70/12 R5)	13 lbs.	(-51)
	(b) (Eclipse LV-160)	18 lbs.	(-51)
	(c) (Eclipse G-2)	21 lbs.	(-51)
	(d) (Eclipse D-2)	26 lbs.	(-51)
311.	Miscellaneous extra instruments	25 lbs.	(-43)
312.	Pressure fire extinguisher		
	(a)	15 lbs.	(-45)
	(b)	19 lbs. (+7)	
		(tank under rear seat)	
313.	Tail wheel lock (neglect increase)		
314.	Flares (three 1-1/2 minute, electric)	17 lbs.	(+78)
315.	Parachute seats - front (Waco-Switlik)	30 lbs.*	(-13)
316.	Extra door and wing walk	16 lbs.*	(+19)
317.	"Y" type control column	4 lbs.*	(-33)
318.	Propellers		
	(a) Adjustable metal	Use actual weight	(-88)
	(b) Controllable metal (Hamilton Standard hub 2B20, blades 6109A-9) (DGC-7)	54 lbs.*	(-88)
	(c) Controllable metal (Hamilton Standard 2B20, blades 6109A-12) (RGC-7)	33 lbs.*	(-88)
319.	Cactus-proof tubes	12 lbs.*	(-27)
320.	Larger starter	Use actual weight	(-51)
321.	Larger battery (Reading AR-9)	15 lbs.*	(+26)
322.	Vacuum pump	4 lbs.	(-53)
323.	Plywood covered leading edge (wing) replacing dural		

NOTE 1. Weight and balance report including list of equipment included in certificated weight empty, and loading instructions when necessary, must be submitted for each cargo type aircraft with original inspector's report and each subsequent report covering changes in such equipment.

NOTE 2. Eligible for export as follows subject to inspection for equipment specified in Chapter XII of Inspection Handbook (5/13/38):

- (a) Canada
- Landplane
 - Skiplane - not eligible. However, structure complies with Canadian

requirements for ski installation. Maximum ski height 14-1/2 inches
and maximum tread 97-1/2 inches.
(b) All other countries.

II - MODEL DGC-7, 5 PCLB

(Same as model ZGC-7, ATC No. 627, except engine installation and battery location.)

Engine	Wright R760E-1
Placard limits	Maximum, except take-off -- in.Hg., 2100 rpm (285 hp) Take-off (one minute) -- in.Hg., 2100 rpm (285 hp)
Standard weight	3500 lbs. (serial numbers 4550 thru 4559) 3800 lbs. (serial numbers 4560 and up) (Serial numbers 4550 thru 4559 eligible upon receipt of manufacturer's affidavit of conformity.)

III - MODEL EGC-7, 5 PCLB

(Same as DGC-7 except engine installation. Empty weight approximately 41 lbs.
greater.)

Engine	Wright R760E-2
Placard limits	Maximum, except take-off -- in.Hg., 2200 rpm (320 hp) Take-off (one minute) -- in.Hg., 2400 rpm (350 hp)
Standard weight	3500 lbs. (serial numbers 4550 thru 4559) 3800 lbs. (serial numbers 4560 and up) (Serial numbers 4550 thru 4559 eligible upon receipt of manufacturer's affidavit of conformity.)