

MODELS: Cessna C-37, (Army UC-77C, UC-77D), 4 PCL-SM

T.C. NUMBER: ATC 622

Engine	Warner Super Scarab Series 40, 50 or 50A
Fuel	73 minimum octane (CFR) aviation gasoline
Engine limits	For all operations, 2060 rpm (145 hp)
Propeller	Maximum permissible diameter, Landplane 86 in.
Airspeed limits	Landplane: Level flight or climb - 167 mph True Ind. Glide or dive - 215 mph True Ind. Flaps extended - 108 mph True Ind. Seaplane: Level flight or climb - 146 mph True Ind. Glide or dive - 195 mph True Ind. Flaps extended - 108 mph True Ind.
Fuel capacity	35 gallons (2 tanks, 1 in each wing at 17-1/2 gallons) (+35)
Oil capacity	3.5 gallons (-24)
No. passengers	3 front (+4), rear (+39)
Baggage	48 lbs. (+54)
Weights	Empty - Use actual (Seaplane approximately 256 lbs. increase over landplane including different type propellers) Standard Landplane 2250 lbs. Seaplane 2500 lbs.
C.G. range	Landplane (+14.2) and (+23.3) Seaplane (+14.7) and (+23.0)
Leveling means	Set level on a 15/16" thick block against bottom of front spar at Rib 3 from fuselage and a 2" thick block against bottom of rear spar at Rib 3 from fuselage.
Certification basis	Approved Type Certificate No. 622
Serial Nos.	330, 342 and up manufactured prior to 9/30/39 eligible. Approval expired as of that date.

EQUIPMENT: (Datum is wing leading edge at fuselage) (* Means net increase)

Class I:

A. Landplane		
101. Engine ring cowl (NACA type with baffles)		24 lbs.
102. Battery (Exide 6AC-7-1) - aft of baggage compartment		17 lbs.
103. Battery box		7 lbs.
104. Starter (Eclipse Y-150)		23 lbs.
105. Generator - wind-driven (Hodges		

	H-12V)	10 lbs.	(-3)
106.	6.50-10 (Detro-Mich.) wheels	55 lbs.	
107.	8 in. streamline tail wheel		
108.	Electric flap control		
109.	Propeller- fixed pitch wood	27 lbs.	(-53)
E.	Seaplane: Items 101, 102, 103, 104, 106, 108 PLUS:		
151.	Special seaplane fin under fuselage	6 lbs.	(+213)
152.	Edo 44-2425 floats with water rudder	329 lbs.	(+26)
153.	Propeller - fixed pitch metal (Curtiss 55511)	47 lbs.	(-53)

Class II:

A. Landplane

200. Miscellaneous items as noted in approved weight and balance report
201. Stretcher installation

B. Seaplane: Items 200, 201, 302, 303, 310, 311, 315 and 316.

Class III:

A. Landplane

301.	Radio (under pilot's seat)	22 lbs.	(+7)
302.	Flares		
	(a) Three 1-1/2 minute	18 lbs.	(+66)
	(b) Five 1 minute	15 lbs.	(+66)
303.	Landing lights		
	(a) Two (St-250)	11 lbs.	(+37)
	(b) One (Grimes ST-1000)	7 lbs.	(+37)
304.	22x10-4 wheels (Goodyear 4MBA)	69 lbs.	(+1)
305.	21 in. streamline wheels (Autofan CS100) with (Goodyear) 4 ply tires	60 lbs.	(+1)
306.	6.50-10 wheels (Warner M-3270)	57 lbs.	(+1)
307.	Generators - Engine-driven		
	(a) (Eclipse G-15A-15V)	21 lbs.	(-27)
	(b) Bosch LE70-12R5)	16 lbs.	(-27)
	(c) Hodges H-12V)	14 lbs.	(-27)
308.	Pilot hatch	3 lbs.	(-2)
309.	Engine shielding	5 lbs.	(-39)
310.	Battery (Exide 6TS-7-1) - aft of baggage compartment	26 lbs.	(+66)
311.	Cabin heater	5 lbs.	
312.	Extra instruments	9 lbs.	(-11)
313.	Propeller - fixed pitch metal (Curtiss 55511)	47 lbs.	(-53)
314.	Manual flap control	3 lbs.	
315.	Extra 10 gallon fuel tank	8 lbs.	(+26)
316.	Extra 17-1/2 gallon fuel tank	12 lbs.	(+24.5)
317.	Wheel streamlines	22 lbs.	(+0)
318.	Emergency exit	5 lbs.	(+20)
319.	Camera aperatures	3 lbs.	(-3)
320.	Skis	Use actual weight	
	(a) Wien Alaska W-2500		
	(b) Wien Alaska W-2500-A		
	(c) Wien Alaska GS-5		
	(c) Federal SC-3		
321.	Propeller - Hamilton Standard adj. metal, hub 7056, blades 19E-1/2-16 or -17. Diameter 86" maximum, 84" minimum.		
322.	Propeller - Koppers Aeromatic 220/0-85. Parts list assembly No. 4397. Low pitch setting 14 degrees at 30 in. sta. Static rpm at maximum permissible throttle setting: Not over 2050, not under 1950. No additional tolerance permitted.; Diameter: Not over 85 in., not under 83.5 in. When this item is installed, installation and operation must be accomplished in accordance with Koppers' "Installation Procedure and Operating limitations No. 63."	53 lbs.	(-28)
E.	Seaplane: Items 301, 307, 308, 309, 312, 314, 318, 319.		

NOTE 1. Eligible for export to all countries except as follows, subject to provisions of MOP 2-4:

(a) Canada

- Landplane and Seaplane - eligible.
- Skiplane - not eligible. However, structure complies with Canadian requirements for ski gear with maximum ski height of 9 inches.

