

MODELS: Stinson SR-9D (Army UC-81G), -9DM, -9E (Army UC-81J), -9EM (Army UC-81M)

I.C. NUMBER: ATC 625

I - SPECIFICATIONS PERTINENT TO ALL MODELS

Propeller	Maximum permissible diameter (for clearance) 8'6" for landplane
Placard speeds	Level flight or climb - 164 mph True Ind. Glide or dive - 220 mph True Ind. Flaps extended - 122 mph True Ind.
Fuel capacity	78 gallons (2 tanks, 39 gallons in each wing) (+34)
Oil capacity	5 gallons (-35)
No. passengers	4 (front +15, rear +53.5)
Baggage	150 lbs. (50 lbs. under rear seat (+54), 100 lbs. in compartment aft of cabin (+75.5))
Weights	Empty - Use actual (seaplane approximately 404 lbs. increase over landplane) Standard - (Landplane) 4100 lbs.; (Seaplane) 4500 lbs.
C.G. limits	(Landplane) (+16.3) and (+27.3) (Seaplane) (+17.8) and (+27.1)
Specification basis	Approved Type Certificate No. 625
Serial numbers	5200 and up manufactured prior to 10/25/40 and all AAF numbers of UC-81G, -81J and -81M eligible. Approval expired as of 10/25/40.

EQUIPMENT:

(Datum is wing leading edge outboard of curved portion) (* Means net increase)

Class I:

Landplane:

101.	Engine ring cowl	35 lbs.	
102.	(Now Class III equipment)		
103.	Starter (Eclipse E-80)	20 lbs.	
104.	Heater and ventilator (2 lbs.)	14 lbs.	
105.	Leather upholstery		
106.	7.50-10 wheels (Goodyear 10HEM) with 8.50-10 6-ply tires (wheels must be placarded for this heavy duty tire)		
107.	10.5 inch streamline or 10 inch smooth contour tail wheel and tire		
108.	Battery (Exide 6TS-13-1) (aft of cabin back wall)	38 lbs.	
109.	Hammock type rear seats		
110.	(Now Class III)		
111.	(a) Engine shielding	13 ls.	(-46)
	(b) Bonding	4 lbs.	(+80)
112.	Automatic valve gear lubrication	7 lbs.	
113.	Oil cooler		
114.	Generator (15 amp. type)	25 lbs.	(-32)
115.	Propeller		
	(a) Model SR-9D, Hamilton Standard hub 2E20, blades 6109A-9 or 6110A- 10, diameter 6'3-1/2" maximum, 8'7/8" minimum or blades 6135A-9 to 6135A-13, inclusive, diameter 8'3-1/8" maximum, 7'9-7/8" minimum	104 lbs.	(-66)
	(b) Model SR-9E, Hamilton Standard hub 2E20, blades 6109A-12 or 6109A-13, 6135A-12 or 6135A-13, diameter		

8 1/8" maximum, 7 9/8" minimum 104 lbs. (-66)

Seaplane: (Items 101, 103, 104, 108, 109, 110, 111, 112, 113, 114, 115 PLUS
151. Edo wa-4665 floats with water rudder
152. Seaplane fin 5 lbs.

Class II:

200. Miscellaneous items as noted in approved weight and balance report.
201. Auxiliary tanks
(a) One 50 gallon fuel tank under rear seat (replaces 50 lb. baggage compartment and third rear passenger (for structural reasons)) (Capacity may be reduced by relocating filler neck.)
(b) One 19 gallon fuel tank under rear (replaces 50 lb. baggage compartment)
(c) One 10 gallon oil tank
202. Multipurpose type (designated by pertinent model suffixed by letter "M"). This type may have auxiliary door aft of main door on either side, large door frame for main and auxiliary doors, removable back on copilot's chair, stretcher door in back wall, ski type fuselage, ambulance litter and installation, and metal lined cabin.
203. Battery (Exide 6TX-19-1) 80 lbs.
204. Ballast (+211) maximum 40 lbs. Required amount as noted in actual weight and balance report should be marked on installation with notation "DC NOT REMOVE."
205. Propeller
(a) Lycoming-Smith P-220 with Curtiss 320SO blades 13 lbs.*
(b) Lycoming-Smith P-220 with Lycoming SO200806 blades 7 lbs.*
(c) Lycoming-Smith P-220 with Lycoming SO220806 blades 7 lbs.*

Class III:

102. Wheel streamlines 24 lbs.
110. Fire extinguisher (Pyrene) 11 lbs. (+2)
301. Special instruments Maximum 29 lbs. (-9)
302. Flares (three 1-1/2 minimum) and wiring (2 lbs.) 17 lbs. (+100)
303. Fire extinguisher (Lux Press.) 20 lbs. (+2)
304. (a) Releasable cabin door
(b) Top hinged door
305. Puncture proof tubes 6 lbs.* (+4)
306. Landing lights (Grimes) 7 lbs.* (+14)
307. Special polish on wings 10 lbs.* (+36)
308. Parachute pilot (front) chair 1 or 2 at 15 lbs. each (+18)
309. Generator (25 amp. type) 30 lbs. (-32)
310. Thermocouple 2 lbs. (-25)
311. Ski type fuselage F-3477 (denoted by letter "S" added to serial number) 7 lbs.* (+12)
312. Ski type landing gear 4 lbs. (+9)
and ski fittings 9 lbs. (+2)
313. Fog light 3 lbs. (+2)
314. Double intensifier heater 5 lbs.* (-42)
315. Fuel analyzer 7 lbs. (-14)
316. Radio equipment:
Maximum of 61 lbs. aft of cabin rear wall (+75) in addition to 30 lbs. at or their equivalents
(a) RCA compass AVR-8 series 61 lbs. (+75)
(b) RCA transmitter AVT-7 series 31 lbs. (+34)
(c) RCA receiver AVR-7 series 27 lbs. (+69)
(d) Lear LR-3 receiver and T-30 transmitter 38 lbs. (+35)
(e) Lear R-3 receiver and T-30 transmitter 26 lbs. (+23)
(f) Antennas 5 lbs.
317. Constant speed controls 13 lbs. (-36)
318. Plexi-glass windshield Net decrease 11 lbs. (-11)
319. Vacuum pump 8 lbs. (-25)

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| 320. | Reinforced wing L.E. | 15 lbs. | (+4) |
| 321. | 6-1/2 or 8 gallon oil tank | | |
| 322. | Starter (Eclipse F-141) | 25 lbs. | |
| 323. | Reinforcement for lower lift strut yokes (one on each side of fuselage) per either of Stinson Drawing Nos. Z-2276, Z-2315, Z-2328, Z-2336 or F-3440 | | |
| 324. | SR-10 type shock struts (with oleo fittings per Dwg. Nos. Z-2348 and Z-2349) | No weight change | |
| 325. | One or two 24 gallon fuel tanks in wing L.E. | 22.5 lbs. each | (+16) |
| 326. | Wing lift fitting alteration in accordance with Stinson Dwg. Z-3515 | | |
| 327. | Skis (use actual weights)
Pollack P-4100 | | |

NOTE 1. Eligible for export as follows subject on inspection for equipment specified in Chapter XII of Inspection Handbook: (10/25/40)

- (a) Canada
- Landplane
 - Seaplane - maximum standard weight 4500 lbs.
 - Skiplane - not eligible. However, structure complies with Canadian requirements for ski installation when items 311 and 312 are installed.
- (b) All other countries.

II - MODELS SR-9D (UC-S1G), -9DM (Item 202), 5 PCL-S4

Engine	Wright R760E-1
Placard limits	For all operations, 2100 rpm (285 hp)

III- MODELS SR-9E (UC-81J), -9EM (UC-81M) (Item 202), DESIGNATION 5 PCL-SM

Engine	Wright R760E-2
Placard limits	Maximum, except take-off 32 in.Hg., 2200 rpm (285 hp) Take-off (one minute) 2400 rpm (350 hp)