

MODELS: Stinson SR-9A, -9B (Army UC-81N), -9C (Army UC-81C)

T.C. NUMBER: ATC 621

I - SPECIFICATIONS PERTINENT TO ALL MODELS

Placard speeds	Level flight or climb - 164 mph True Ind. Glide or dive - 220 mph True Ind. Flaps extended - 122 mph True Ind.
Oil capacity	5 gallons
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)) (See NOTE 2)
C.G. limits	Landplane (+17.7) and (+27.6) Seaplane (+18.1) and (+27.3)
Specification basis	Approved Type Certificate No. 621
Serial numbers	5100 and up manufactured prior to 10/25/40 and all AAF numbers of UC-81C and UC-81N eligible. Approval expired as of 10/25/40,

EQUIPMENT:

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

Class I:

Landplane:

101. Engine ring cowl	36 lbs.
102. (Now Class III equipment)	24 lbs.
103. Starter (Eclipse E-80)	20 lbs.
104. Heater and ventilator (2 lbs.)	14 lbs.
105. Leather upholstery	
106. 7.50-10 wheels (Goodyear 10HBM) with 8.50-10 4-ply tires (wheels must be placarded for this size tire)	
107. 10.5 in. streamline tail wheel and tire	
108. Batteries (Exide 6TS-13-1) (aft of cabin back wall)	38 lbs.
109. (Now Class III equipment)	
110. Oil cooler	

Seaplane: (Items 101 thru 110 less 102, 106 and 107 PLUS)

- 151. Edo 39-4000 floats with water rudders
- 152. Auxiliary seaplane fin

Class II:

- 200. Miscellaneous items as noted in approved weight and balance report.
- 201. Generator (-40)
 - (a) 15 amp. type 25 lbs.
 - (b) 25 amp. type 30 lbs.
- 202. Battery
 - (a) Exide 6TS-19-1 (replaces item 108) 80 lbs.
 - (b) Additional Exide 6TS-13-1 (structure must be altered per Drawing P2917) 38 lbs.
- 203. (SR-9B and SR-9C) one or two 24 gallon auxiliary fuel tanks in wing leading edge 22.5 lbs. each(+16)
- 204. Multipurpose type (designated by pertinent model suffixed by letter "M"). This type may have auxiliary door aft of main door on right 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. Allowable standard weight is 3750 lbs. as landplane, 4000 lbs. as seaplane.

Class III:

- 102. Wheel streamlines 24 lbs.
- 109. Fire extinguisher (Pyrene) 11 lbs. (+2)
- 301. Special instruments (-9)
 - (a) B engine installed 40 lbs. maximum
 - (b) D engine installed 32 lbs. maximum
- 302. Flares (three 1-1/2 minute) and wiring (2 lbs.) 17 lbs. (+100)
- 303. Fire extinguisher (Lux Press.) 20 lbs. (+2)
- 304. (a) Releasable cabin door Neglect weight
- (b) Top hinged cabin door Neglect weight
- 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. Engine shielding 9 lbs. (-46)
- 310. (a) 70 gallon fuel capacity (2 tanks in wing at 35 gallons each (SR-9A only) (+34)
- (b) 82 gallon fuel capacity (2 tanks in wings at 41 gallons each) 5 lbs.* (+34)
- (c) 78 gallon fuel capacity (2 tanks in wings at 39 gallons each) 5 lbs.* (+34)
- 311. Ski type fuselage F-3475 (denoted by letter "S" added to serial number) 8 lbs.* (+13)
- 312. Ski type landing gear 14 lbs.*(+9) and ski fittings 9 lbs. (+2)
- 313. Fog light 3 lbs. (+2)
- 314. Double intensifier heater 5 lbs.* (-43)
- 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 (+34) or their equivalents.
- 317. Antennas 5 lbs.
- 318. Propeller
 - (a) Lycoming - P-220 with Curtiss B300SO blades (SR-9B only) 10 lbs.* (-64)
 - (b) Lycoming P-220 with Curtiss 320SO blades (SR-9B and SR-9C only) 13 lbs.* (-64)
 - (c) Lycoming P-220 with Lycoming SO200806 blades (SR-9B and SR-9C only) 7 lbs.*
 - (d) Lycoming P-220 with Lycoming SO220806 blades (SR-9B and SR-9C only) 7 lbs.*
 - (e) Lycoming P221 with Curtiss B350S1 blades (SR-9B only)
- 319. Goodyear 4HEM wheels with 25x11-4 4-ply tires (To be used when landing gear is built as per Stinson Drawing I-608.

	When these wheels are used, blades must be installed to maintain the required propeller clearance.)	10 lbs.*	
320.	6-1/2 or 8 gallon oil tank		
321.	Vacuum pump	8 lbs.	(-25)
322.	Constant speed control (SR-9B and SR-9C only)	6 lbs.	(-59)
323.	Camera hole in cabin floor	4 lbs.	
324.	Deleted 6/29/38.		
325.	Reinforcement for lower lift strut yokes (one on each side of fuselage) per either of Stinson Drawing numbers Z-2276, Z-2315, Z-2328, Z-2336 or F-3440	4 lbs.*	
326.	Wing lift fitting alteration in accordance with Stinson Drawing Z-3515		
327.	Skis (use actual weights)		
	(a) Alaska Airmotive 3750-L		
	(b) Grät & Smith or Wien GS-1		

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

- (a) Canada
- Landplane
 - Seaplane - Maximum standard weight 4000 lbs.
 - Skiplane - not eligible. However, structure complies with Canadian requirements for ski installation when items 311 and 312 are installed.
- (b) All other countries except Australia.

NOTE 2. Baggage in compartment aft of cabin must be limited to a maximum of 50 lbs. when three passengers occupy the rear seat and it must be so placarded (unless actual weight and balance shows a lesser restriction necessary.)

NOTE 3. Series B engines approximately 11 lbs. lighter than series D.

II - MODEL SR-9A, DESIGNATION 5 PCLM

Engine	Lycoming R-680-B4
Placard limits	Maximum, except take-off -- in.Hg., 2100 rpm (225 hp) Take-off (one minute) -- in.Hg., 2100 rpm (225 hp)
Propeller	Hamilton Standard adjustable metal, hub 5404, blades 5B1-6 or 5B1-7. Diameter 8'6" maximum, 8'4" minimum -- 79 lbs. (-66)
Fuel capacity	50 gallons (2 tanks, 25 gallons in each wing) (+34)
Standard weight	3700 lbs.

III - MODEL SR-9B (US-81N), DESIGNATION 5 PCL-SM

(Same as SR-9A except engine installation)

Engine	Lycoming R-680-B6 or R-680-D6 (See NOTE 3)
Placard limits	(-B6): Maximum, except take-off -- in.Hg., 2100 rpm (225 hp) Take-off (one minute) -- in.Hg., 2300 rpm (245 hp) (-D6): Maximum, except take-off -- in.Hg., 2100 rpm (225 hp) Take-off (one minute) -- in. Hg., 2300 rpm (245 hp)
Propeller	Hamilton Standard hub 2B20, blades 6135A-6 to 6135A-13, inclusive. Diameter 8'6-1/8" maximum, 7'9-7/8" minimum 104 lbs. (-66) (See Item 319)
Fuel capacity	70 gallons (two tanks, 35 gallons in each wing) (+34)
Weights	Empty - Use actual (seaplane approximately 322 lbs. heavier than landplane) Standard - (Landplane) 3700 lbs. (See Item 204) (Seaplane) 4000 lbs.

IV - MODEL SR-9C (UC-81C), DESIGNATION 5 PCL-SM

(Same as SR-9B except engine installation)

Engine	Lycoming R-680-B5 or R-680-D5 (See NOTE 3)
Placard limits	(-B5):

Maximum, except take-off
-- in.Hg., 2000 rpm (240 hp)
Take-off (one minute)
-- in.Hg., 2300 rpm (260 hp)
(-D5):
Maximum, except take-off
-- in.Hg., 2100 rpm (245 hp)
Take-off (one minute)
-- in.Hg., 2300 rpm (260 hp)
Propeller Hamilton Standard hub 2B20, blades 6135A-6 or
6135A-7.
Diameter 8'6-1/8" maximum, 8'3-7/8" minimum
104 lbs. (-66)
Fuel capacity 70 gallons (2 tanks, 35 gallons in each wing) (+34)
Weights Empty - Use actual (seaplane approximately 322 lbs.
heavier than landplane)
Standard - (Landplane) 3750 lbs.; (Seaplane) 4000 lbs.