

MODELS: Stinson SR-10F (Army UC-81F), 5 PCL-SM

T.C. NUMBER: T.C. 685

Engine	P & W Wasp Jr. TB with one 4-1/2 N and one 9N damper (See also Item 203)
Fuel	80 minimum octane (See Item 203)
Placard limits	Maximum, except take-off 2200 rpm (420 hp) Take-off (one minute) 2300 rpm (440 hp) (See Item 102)
Propeller	(See Item 102)
Placard speeds	Level flight or climb - 183 mph True Ind. Glide or dive - 247 mph True Ind. Flaps extended - 121 mph True Ind.
Fuel capacity	100 gallons (two at 38 gallons (wing) (+34) and one 24 gallon (wing) (+17)) (See NOTE 2)
Oil capacity	6-1/2 gallons (-34)
No. passengers	4 (front +14, rear +54)
Baggage	150 lbs. (50 lbs. under rear (+34) and 100 lbs. aft of seat (+85))
Standard weight	Landplane 4650 lbs. Seaplane 5200 lbs.
C.G. limits	Landplane (+15.9) and (+26.5) (See NOTE 2) Seaplane (+17.3) and (+26.5) (See NOTE 2)
Specification basis	Type Certificate NO. 685 Production Certificate No. 3
Serial numbers	5800 and up manufactured prior to 2/28/41 and all AAF numbers eligible. Approval expired as of 2/28/41. (See NOTE 4)

EQUIPMENT:

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

Class I:

Landplane:

101.	Hinged engine cowl	54 lbs.	
102.	(a) Propeller - Hamilton Standard hub 2D30 with blades 6095A-12 to -16, 6167A-12 to -16 or 6101A-18 to -22. Diameter 8'6-1/8" maximum, 8'7/8" minimum.	170 lbs.	(-65)
	(b) Constant speed accessories (Hamilton Standard)	9 lbs.	(-36)
103.	Starter (Eclipse L-S0)	20 lbs.	(-32)
104.	Generator (Eclipse AL-1 or G)	25 lbs.	(-37)
105.	Battery (Exide 6TS-13-1)	38 lbs.	(+94)
106.	Shielding (Breeze)	13 lbs.	(-46)
107.	7.50-10 wheels with 8.50-10 6-ply tires (wheels must be placarded for these tires)	80 lbs.	(+4)
108.	10 inch smooth contour or 10.5 in. streamline tail wheel and tire	5 lbs.	(+213)
109.	Cabin heater	11 lbs.	
110.	(Now Class III)		

Seaplane:

(Items 101 thru 106, 109 PLUS			
151.	Edo 59-5250 float installation including auxiliary fin	365 lbs.	(+25)

Class II:

200.	Miscellaneous items as noted in approved weight and balance report		
201.	Batteries		
	(a) Heavy duty (Exide 6XT-13-1)	66 lbs.	(+94)
	(b) Large (Exide 6TX-19-1)	80 lbs.	(+94)
	(c) (Exide 6TS-13-1)	38 lbs.	(+33)
202.	Fuel tanks - two 25 gallon (See NOTE 2)	Net decrease 13 lbs. (+34)	
203.	Engines (must have one 4-1/2 N and one 9 N damper) (87 minimum fuel required for 450 hp take-off)	Use actual weight increase	
	(a) P & W Wasps Jr. SB Limits Maximum, except take-off: (Sea level) 34.5 in.Hg., 2200 rpm (400 hp) (Straight line manifold pressure variation with altitude to 5000 ft.) 33.5 in.Hg., 2200 rpm (400 hp) Take-off (one minute) 38.5 in.Hg., 2300 rpm (450 hp)		
	(b) P & W Wasps Jr. SB-2 (limits same as SB)		
	(c) P & W Wasps Jr. SB-3 (limits same as SB)		
	(d) P & W Wasps Jr. T1B2 limits Maximum, except take-off: (Sea level) 35 in.Hg., 2200 rpm (400 hp) (Straight line manifold pressure variation with altitude to 3800 ft.) 34 in.Hg., 2200 rpm (400 hp) Take-off (one minute): 37.5 in.Hg., 2300 rpm (450 hp)		
	(e) P & W Wasps Jr. T1B3 (limits same as T1B2, Item 203(c) above)		
	(f) Military R-985-AN-4 (limits same as SB)		
	(g) Military R-985-AN-6 or -AN-6B (limits same as SB)		
	(h) Military R-985-AN-12 or -AN12B (limits same as SB)		
	(i) Military R-985-AN-14B (limits same as SB)		
	(j) Military R-985-2b (limits same as T1B2, Item 203(c) above)		
	(k) Military R-985-AN-1 or -AN-3 (limits same as T1B2, Item 203(c) above)		
	(l) R-985-13, -17, -19, -23, -48, -50, -AN-2, or -AN-8 (limits same as SB)		
	(m) R-985-27 (limits same as T1B2)		

204.	Radio equipment in excess of Item 309.		
205.	Multipurpose equipment (includes 12'1" metal-lined cabin, extra door, baggage tie-downs)	39 lbs.	(+55)
206.	Radio power pack (vibrator type)	25 lbs.	(+34)
207.	Belly hatch installation	55 lbs.	(+58)
208.	Provision for extra battery (box included)	6 lbs.	(+121)
209.	Adams mail pick-up and delivery device (Kirkham Engineering Corp.) (See NOTE 3)		
	(a) Pick-up unit (replaces rear hammock seat 22 lbs. (+59) and rear seat supports 9 lbs. (+163))	54 lbs.	(+54)
	(b) Delivery unit	5 lbs.	(+95)
	(c) Cable and hook (pick-up)	20 lbs.	(+80)
	(d) Rope and basket (delivery)	14 lbs.	(+95)
	(e) Forward mail compartment (200 lb. capacity) (replaces co-pilot chair 24 lbs. (+12) and controls 4 lbs. (-13))	5 lbs.	(+6)
	(f) Center mail compartment (150 lb. capacity)	5 lbs.	(+27)
	(g) Rear mail compartment (150 lb. capacity)	8 lbs.	(+115)
	(h) Well in floor	9 lbs.	(+85)
	(i) Long cabin type trim	2 lbs.	(+85)
	(j) Structural modifications per Stinson Drawing Z-3325	25 lbs.	(+80)
	(k) Metal skin on belly	15 lbs.	(+123)
	(l) Folding seat	6 lbs.	(+41)
210.	Extra set of controls (rear) per Drawings Z-3594 and 3702 (including pilot seats replacing hammock)	55 lbs.*	(+36)
211.	Propeller		
	(a) Hamilton Standard 2D30 hub with 6095A-12 or 6095A-13 blades. Diameter 8'6-1/8" maximum, 8'3-7/8" minimum.	7 lbs.*	

Class III:

110.	Wheel streamlines	24 lbs.	(+3)
301.	(a) 25 amp. generator (Eclipse Type D)	30 lbs.	(-37)
	(b) Control box (detachable type)	2 lbs.	(-22)
302.	Exhaust gas analyzer (Cambridge)	7 lbs.	(-14)
303.	Lights		
	(a) Landing (Grimes ST-1000)	12 lbs.	(+13)
	(b) Landing (Grimes ST-250)	9 lbs.	(+16)
	(c) Fog	3 lbs.	(+2)
	(d) Moonbeam	Neglect weight	
304.	Vacuum pump and accessories	8 lbs.	(-25) or (-31)
305.	Flares		
	(a) Four 1-1/2 minute electric	18 lbs.	(+116)
	(b) Three 1-1/2 minute electric	14 lbs.	(+116)
	(c) Wiring	2 or 3 lbs.	(+33)
306.	24 gallon auxiliary fuel tank	23 lbs.	(+17)
307.	(a) Two parachute pilot chairs	30 lbs.	(+17)
	(b) Two rear seat parachutes	40 lbs.	(+56)
308.	Special finishes		
	(a) Paint	15 lbs.	(+48)
	(b) Polish (14-16 coats)	10 lbs.	(+36)
	(c) Polish (10-12 coats)	7 lbs.	(+36)
309.	Radio equipment		
	(a) 85 lbs. between (+16) and (+54)		
	(b) 25 lbs. between (-8) and (+16)		
	(c) 9 lbs. at (+115)		
	(d) 3 lbs. at (+219)		
310.	Thermocouples		
	(a) 9 point	7 lbs.	(-11)
	(b) 4 point	5 lbs.	(-11)
	(c) 2 point	3 lbs.	(-11)
311.	Thermo-pete (built-in)	2 lbs.	(-34)
312.	Doors		
	(a) Emergency	Neglect weight	
	(b) Emergency (top hinged)	Neglect weight	
	(c) Camera	6 lbs.	(+33)
313.	Pitot tube heater	Neglect weight	
314.	Corrosive proofing		
	(a) Salt water specifications	25 lbs.	(+50)
	(b) Fresh water specifications	15 lbs.	(+50)
315.	8.50-10 cactus-proof tubes	6 lbs.	(+4)

316.	Fire extinguisher	20 lbs.	(+2)
317.	Special instruments		
	(a)	32 lbs.	(-16)
	(b)	5 lbs.	(-12)
318.	7-3/4 or 8 gallon oil tank	2 lbs.*	(-34)
319.	Propeller spinner	7 lbs.	(-69)
320.	Movable right hand co-pilot window	6 lbs.	(+4)
321.	Multi-purpose door (Drawing F-3980)		
322.	Skis (use actual weights)		
	Federal SA-10		

NOTE 1. Eligible for export as follows, subject to inspection for equipment specified in Chapter XII of Inspection Handbook (2/28/41):

- (a) Canada
  - Landplane
  - Skiplane - not eligible. However, structure complies with Canadian requirements for ski installation with maximum tread 113-1/4 inches and ski height 10-1/2 inches.
  - Seaplane - maximum standard weight 5200 lbs.
- (b) All other countries except New Zealand.

NOTE 2. Placard fuel system as follows:

- (a) At selector valves: "Use auxiliary fuel first."
- (b) At filler cap: "Fill main (38 gallon or 25 gallon) tanks first."

NOTE 3. The following speed and weight limitations must be observed during pick-up and delivery when item 209 is installed:

- (a) Maximum airspeed during pick-up or delivery 100 mph.
- (b) Maximum pick-up load 50 lbs.
- (c) Maximum delivery load 84 lbs.

NOTE 4. Serial numbers 5901 and up same as 5800 series except vertical tail surface, battery installation, fuel system, exhaust collector ring, engine cowl, control wheel, and pilot's chair.