

MODELS: Stinson SR-10D, -10E (Army UC-81H), -10K

T.C. NUMBER: T.C. 679

I - SPECIFICATIONS PERTINENT TO ALL MODELS:

No. passengers	4 (one front +13, three rear +54)
Baggage	150 lbs. (50 lbs. under rear seat (+54) and 100 lbs. aft of rear seat (+85))
Specification basis	Type Certificate No. 679 Production Certificate No. 3
Serial numbers	5801 and up manufactured prior to 2/28/41 eligible. Approval expired as of that date. (See NOTE 5)

EQUIPMENT:

(Datum is leading edge of wing) (* Means net increase) (See NOTE 2)

Class I:

A. Landplane

101.	Hinged engine cowl		
	(a) SR-10D and SR-10E	50 lbs.	
	(b) SR-10K	54 lbs.	
102.	Propeller		
	(a) For SR-10D and SR-10E - control- lable metal (Lycoming-Smith P220 with Curtiss 32080 blades)	127 lbs.	(-64)
	(b) For SR-10K - constant speed (Hamilton Standard 2D30 hub with 6101A-18 or -19 blades. Diameter 8'6-1/8" maximum, 8'3-7/8" minimum.)	170 lbs.	(-65)
	Constant speed accessories	9 lbs.	(-36)
103.	Starter		
	(a) For SR-10D and SR-10E (Eclipse E-80)	20 lbs.	(-30)
	(b) For SR-10K (Eclipse F-141)	25 lbs.	(-30)
104.	Battery (Exide 6TS-13-1)	38 lbs.	(+94)
105.	7.50-10 wheels (Hayes 751A) with 8.50-10 6-ply tires (wheels must be placarded for these tires)	42 lbs.	(+4)
106.	10 inch smooth contour or 10.5 inch streamline tail wheel and tire (6-ply tire required on SR-10K)	21 lbs.	(+213)
107.	Cabin heater	8 lbs.	
108.	Engine shielding (Breeze)	13 lbs.	(-46)
109.	Carburetor air heater		
110.	Generator - 15 amp. (Eclipse AL-1)	25 lbs.	(-32)
111.	Oil cooler		
	(a) For SR-10D and SR-10E (Drawing P-2592)	6 lbs.	
	(b) For SR-10K (U.A.P. U-3160)	19 lbs.	

B. Seaplane: (Items 101 to 104 and 107 to 111 PLUS)

151.	Edo 59-5250 float installation including auxiliary fin	365 lbs.	
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Class II:

200.	Miscellaneous items as noted in approved weight and balance report		
201.	Batteries		
	(a) Exide 6XT-13-1	66 lbs.	
	(b) Exide 6TX-19-1	80 lbs.	
202.	Fuel tanks - two 25 gallon main (wing)	Net decrease 15 lbs.	(+34)
203.	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 8 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 lbs. capacity)	5 lbs.	(+27)
(g)	Rear mail compartment (150 lbs. 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)

Class III:

301.	Generators		
(a)	25 amp. (Eclipse D)	5 lbs.*	(-32)
(b)	15 amp. (Eclipse G)	No weight change	
(c)	Control box (detachable type)	2 lbs.	
302.	Propellers (for SR-10D and SR-10E only)		
(a)	Controllable metal (Hamilton Standard 2D20 hub with 6135A-12 or -13 blades. Diameter 8'1/8" maximum, 7'9-7/8" minimum. Low pitch setting 13 degrees.)	107 lbs.	(-66)
(b)	Constant speed accessories (Lycoming-Smith)	6 lbs.	(-59)
(c)	Constant speed accessories (Hamilton Standard)	13 lbs.	(-36)
(d)	Controllable metal (Lycoming-Smith P220 with Lycoming S0200806 blades)	121 lbs.	
(e)	Controllable metal (Lycoming-Smith P220 with Lycoming S0220806 blades)	123 lbs.	
(f)	Controllable metal (Hamilton Standard 2B20 hub with blades 6135A-9 or -10. Diameter 8'3-1/8" maximum, 8'7/9" minimum) (Model SR-10D only)		
303.	Fuel analyzer (Cambridge)	7 lbs.	(-14)
304.	Lights		
(a)	Landing (Grimes ST-1000)	12 lbs.	(+13)
(b)	Landing (Grimes ST-250)	9 lbs.	(+16)
(c)	Fog	3 lbs.	(+2)
(d)	Moonbeam	1 lb.	(+10)
305.	Vacuum pump and accessories	8 lbs.	(-25)
306.	Flares		
(a)	Three 1-1/2 minute	14 lbs.	(+116)
(b)	Wiring	2 lbs.	(+33)
307.	Fuel tanks - one or two 24 gallon auxiliary (wing)	23 lbs. each	(+17)
308.	(a) Two parachute pilot chairs	30 lbs.	(+17)
(b)	Two rear seat parachutes	40 lbs.	(+56)
309.	Special finishes		
(a)	Paint	15 lbs.	(+48)
(b)	Polish (14-16 coats)	10 lbs.	(+36)
(c)	Polish (10-12 coats)	7 lbs.	(+36)
310.	Radio equipment		
(a)	Compass and rotatable loop (RCA AVR-8E)	60 lbs.	(+54)
(b)	Compass and fixed loop (RCA AVR-8D)	54 lbs.	(+53)
(c)	Receiver (RCA AVR-7 Series)	32 lbs.	(+43)
(d)	Transmitter (RCA AVT-7 Series)	37 lbs.	(+46)
(e)	Equipment box	7 lbs.	(+54)
(f)	Antenna - trailing	3 lbs.	(+219)
(g)	Antenna - tee type	2 lbs.	(+59)
(h)	Antenna - vee type	4 lbs.	(+91)
(i)	Antenna - remote reel (Aero Radio)	9 lbs.	(+115)
(j)	Antenna - hand reel (Air Associates)	8 lbs.	(+15)
(k)	Antenna - hand reel (Lear)	8 lbs.	(+15)

311.	Thermocouples		
	(a) 9 point	7 lbs.	(-11)
	(b) 4 point	5 lbs.	(-11)
	(c) 2 point	3 lbs.	(-11)
312.	Double intensifier tubes (for SR-10D and SR-10E only)	5 lbs.	(-42)
313.	Doors		
	(a) Camera	6 lbs.	(+33)
	(b) Emergency	1 lb.	(+14.5)
314.	Pitot tube heater	1 lb.	(-8)
315.	Corrosion proofing		
	(a) Salt water specifications	25 lbs.	(+50)
	(b) Fresh water specifications	15 lbs.	(+50)
316.	8.50-10 cactus-proof tubes	6 lbs.	(+21)
317.	Fire extinguisher (Lux)	20 lbs.	(+2)
318.	Thermo-Pete (built-in)	2 lbs.	(-34)
319.	Special instruments		
	(a)	32 lbs.	(-16)
	(b)	5 lbs.	(-12)
320.	Oil tanks		
	(a) 6-1/2 gallon (for SR-10D and SR-10E only)	2 lbs.*	(-34)
	(b) 8 gallon	2 lbs.*	(-34)
321.	Drift indicator	4 lbs.	(-5)
322.	Wheel streamlines	24 lbs.	(+3)

NOTE 1. Eligible for export as follows, subject to inspection for equipment specified in Chapter XII of Inspection Handbook (9/10/41):

- (a) Canada
 - Landplane
 - Skiplane - not eligible. However, structure of serial numbers 5831 and up complies with Canadian requirements with a ski tread of 112 inches and a maximum ski height of 10.5 inches.
 - Seaplane - maximum standard weight 5200 lbs.
 (b) All other countries except Australia, Great Britain and New Zealand.

NOTE 2. Weight and balance report including list of equipment included in certificated weight empty, and loading instructions when necessary, must be submitted for each Model SR-10D with original inspector's report and each subsequent report covering changes in such equipment.

NOTE 3. The following speed and weight limitations must be observed during pick-up and delivery when item 203 is installed:

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

NOTE 4. Placard fuel system as follows:

- (a) At selector valves: "Use auxiliary (leading edge) fuel first."
 (b) At auxiliary tank filler cap: "Fill main tanks first."

NOTE 5. 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.

NOTE 6. Serial number 5914 eligible as model SR-10E Special and Serial No. 5925 eligible as model SR-10E7 Special with the following:

Designation	5 PCLM
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)
Propeller	(See Item 302 (a))
Placard speeds	Level flight or climb - 165 mph True Ind. Glide or dive - 220 mph True Ind. Flaps extended - 121 mph True Ind.
Fuel capacity	100 gallons (two tanks, 38 gallons each (+34) and one 24 gallon tank (+17))
Oil capacity	6-1/2 gallons (-34)
Standard weight	4500 lbs.
C.G. limits	(+16.3) and (+27)

(Structurally same as model SR-10F)

II - MODEL SR-10D, DESIGNATION 5 PCLM (SEE NOTE 2)

(Same as Model SR-10E except engine)

9 Engine Wright R760E-1

Placard limits	Maximum, except take-off -- in.Hg., 2100 rpm (285 hp) Take-off (one minute)
Placard speeds	-- in.Hg., 2250 rpm (300 hp) Level flight or climb - 165 mph True Ind. Glide or dive - 220 mph True Ind. Flaps extended - 121 mph True Ind.
Fuel capacity	76 gallons (two tanks at 38 gallons) (+34)
Oil capacity	5 gallons (-34)
Standard weight	4150 lbs.
C.G. limits	(+16.25 and (+27.7) (See NOTE 4)

III - MODEL SR-10E, DESIGNATION 5 PCLM (See NOTE 6)

Engine	Wright R760E-2
Placard limits	Maximum, except take-off -- in.Hg., 2200 rpm (320 hp) Take-off (one minute)
Placard speeds	-- in.Hg., 2400 rpm (360 hp) Level flight or climb - 165 mph True Ind. Glide or dive - 220 mph True Ind. Flaps extended - 121 mph True Ind.
Fuel capacity	76 gallons (two tanks at 38 gallons) (+34)
Oil capacity	5 gallons (-34)
Standard weight	4150 lbs.
C.G. limits	(+16.25) and (+27.7) (See NOTE 4)

IV - MODEL SR-10K, DESIGNATION 5 PCI-SM

(Structurally same as model SR-10F, T.C. 685)

Engine	Wright R975E-3
Placard limits	Maximum, except take-off 34.5 in.Hg., 2200 rpm (420 hp) Take-off (one minute)
Placard speeds	36.5 in.Hg., 2250 rpm (450 hp) 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 tanks at 38 gallons (+34) and one 24 gallon tank (+17))
Oil capacity	6-1/2 gallons (-34)
Standard weight	(Landplane) 4650 lbs. (Seaplane) 5200 lbs.
C.G. limits	Landplane (+15.9) and (+26.5) (See NOTE 4) Seaplane (+17.3) and (+26.5) (See NOTE 4)