

STATE SECURITIES COMPANY

MODELS: State Securities Arrow F, 2 PO-CLM

I.C. NUMBER: ATC 613

Engine	Arrow V-8 Model F
Placard limits	Maximum, except take-off -- in.Hg., 3075 rpm (82 hp) Take-off (one minute) -- in.Hg., 2075 rpm (82 hp)
Placard speeds	Level flight or climb - 100 mph True Ind. Glide or dive - 135 mph True Ind.
Fuel capacity	20 gallons (one tank in fuselage) (+8)
Oil capacity	2 gallons (in engine sump) (-19)
Water capacity	7 gallons (58 lbs.) (+8)
No. passengers	1 (+33)
Baggage	28 lbs. (aft of seat) (+52)
Standard weight	1675 lbs.
C.G. limits	(+14.3) and (+16.7)
Specification basis	Approved Type Certificate No. 613
Serial numbers	1 and up manufactured prior to 11/22/40 eligible. Approval expired that date due to sale to State Securities Company, Lincoln NB (see NOTE 1)

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

Class I:

101.	7.00-5 wheels with 7.00-5 4-ply tires		
102.	Tail skid		
103.	Auxiliary hand fuel pump	2 lbs.	
104.	Generator, mount, belt and pulleys	13 lbs.	
105.	Battery and box (in engine compartment)	11 lbs.	
106.	Radiator - Arrow F-614 Series	33 lbs.	(+3)
107.	Propeller - wood	18 lbs.	

Class II:

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

Class III:

301.	Radiator - Arrow F-613 or F-611B		
	6 gallon capacity	Net decrease 12 lbs.	(+3)
302.	Wheel streamlines	14 lbs.	(+1)
303.	Brakes (7.00-5 wheels - Hayes)	4 lbs.*	(+1)
304.	Tail wheel		
	(a) 10x3	2 lbs.*	(+174)
	(b) 6x2.00	2 lbs.*	(+206)
	(c) 3-1/2 in.	2 lbs.*	(+179)
305.	Parking brake	1 lb.	(+5)
306.	Hand engine starter	3 lbs.	(0)
307.	Winter enclosure with hinged or sliding hatch (Leading edge of stabilizer must be raised by inserting up to 1/2 inch of blocks and longer bolts at front fuselage fitting to obtain satisfactory longitudinal trim. The size of blocks installed to be substantiated by flight tests).	10 lbs.	(+35)
308.	Oleo type landing gear (Drawing F-315A) Item 310 must be installed.)		
309.	Revised seat construction (Drawing F-7053)		
310.	Large wing fillets and metal strut fairing (Drawing F-1H)	11 lbs.	

NOTE 1. Serial numbers 1 thru 53 must have wings revised to conform with approved gull type wings. All parts and instructions (dated 6/28/37) were forwarded owners by manufacture.

NOTE 2. Eligible for export to all countries except Australia, Canada and Great Britain (7/9/38).