

MODELS: American S1-B, 2 PCLM

T.C. NUMBER: 705

Engine	American S-5-125
Placard limits	For all operations, 1950 rpm (125 hp)
Placard speeds	Level flight or climb - 111 mph True Ind. Glide or dive - 135 mph True Ind.
Propeller	Maximum permissible diameter 99 in. (See NOTE 3(b))
Fuel capacity	23-1/2 gallons (in fuselage) (-1)
Oil capacity	3 gallons (-16)
No. passengers	1 (+33)
Baggage	50 lbs. (+29.5) (one 25 lbs. compartment in each wing stub)
Standard weight	1900 lbs.
C.G. limits	(+20.1) and (+23.9)
Spec. basis	Type Certificate No. 705
Serial Nos.	27 and up eligible per NOTE A

Equipment: (Datum is leading edge center section wing) (\* Means net increase)

Class I:

101.	Propeller - adj. metal (Hamilton Standard, hub 7061-C, blades 19B-1/2)	62 lbs.	(-44)
102.	Collector ring	15 lbs.	(-25)
103.	12 volt generator (Bosch)	10 lbs.	(-20)
104.	Battery (Willard)	15 lbs.	(-11)
105.	6.50-10 wheels (Hayes 651M) with brakes and tires	50 lbs.	(+3)
106.	Tail wheel (Goodrich Model 61) and 6x2-1/2 solid tire (Goodrich)	3 lbs.	(+208)
107.	Two landing gear shock struts (American S-100, Dwg. 8-107)	17 lbs.	(+8)
108.	Carburetor air heater		

Class III:

301.	Propeller - wood (fixed or adj. pitch) (including hub) (See NOTE 3)	27 lbs.	(-44)
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NOTE A. Each aircraft manufactured after 11-10-41 must, prior to original certification, satisfactorily pass:

- An inspection for workmanship, materials and conformity before any covering, metal priming or final finish is applied.
- A final inspection of the completed aircraft.
- A check of flight characteristics.

NOTE 1. Eligible for export as follows, subject of provisions of MOP-2-4:

- Canada
  - Landplane - eligible
  - Skiplane - not eligible
- All other countries except Great Britain, Australia, and New Zealand.

NOTE 2. Fuel valves must be placarded as follows:  
"Use reserve for take-off and landing."

NOTE 3. When wood propeller, item 301, is installed --

- Two 18-1/2 lbs. ballast weights must be installed in accordance with American Aircraft Dwg. No. 7-100-1.
- The following limitations apply:
  - Static rpm at maximum permissible throttle setting - not over 1930, not under 1390
  - Diameter - not over 99 in. not under 87 in.