

DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

4A11
BEECRAFT
HoneyBee (HB)

October 27, 1954

AIRCRAFT SPECIFICATION NO. 4A11

Manufacturer: Beecraft Associates, Incorporated
1536 Missouri Street
San Diego 9, California

I - Model HoneyBee HB, 1 PCLM (Normal Category), Approved December 17, 1953

Engine	Continental A-65-8	
Fuel	80 min. octane aviation gasoline	
Engine limits	For all operations, 2300 rpm (65 hp)	
Airspeed limits	Vp (Maneuvering speed)	97 mph (84 knots) True Ind.
	Vc (Max. structural cruising speed)	108 mph (94 knots) True Ind.
	Vne (Never exceed speed)	136 mph (118 knots) True Ind.
C.G. range	(61.1) to (64.0)	
Empty weight C.G. range	(61.2) to (62.0). When the empty C.G. falls within the range given, complete computations of critical fore and aft C.G. portions are unnecessary. Range is not valid for non-standard loadings.	
Datum	52.75 in. forward of wing leading edge. (at nose of propeller spinner).	
Leveling means	Left window sill.	
Maximum weight	860 lbs.	
No. seats	1 (68.5)	
Maximum baggage	25 lbs. (92.5)	
Fuel capacity	8.8 gals. (42) (8.0 gal. usable - See Note 1)	
Oil capacity	4 qts. (26)	
Control surface movements	Aileron	- 37.5 degrees up & 25 degrees down)
	Elevator motion	- 18.5 degrees up & 11.5 degrees down)
	Rudder motion	- 30 degrees up with 20 degrees down) Elerudder
	Max. elerudder travel	- 45 degrees up and 26 degrees down) movements
Serial Nos. eligible	No. 1 only	
Required equipment	In addition to the pertinent required basic equipment specified in CAR 3, the following items of equipment must be installed: 1(a), 201(a), 202(a), 203(a), 204(a), 401, 402.	

Specifications Pertinent to all Models

Certification basis	Type Certificate No. 4A11 (CAR 3 as amended to November 1, 1949 plus Amendments 1-10 incl.)	
Production basis	None.	
Export eligibility	Eligible for export to all countries subject to the provisions of MOP 2-4 except as follows: Canada - Landplane only eligible.	

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Equipment:

Propellers and Propeller Accessories

1. (a) Propeller - Flottorp 65A66 or any other fixed-pitch wood propeller which is 10 lbs. (7)
eligible for the engine power and speed and which meets the following limits:
Static rpm at maximum permissible throttle setting:
No over 1900 rpm, not under 1800 rpm.
No additional tolerance permitted.
Diameter: Not over 65 in., not under 63 in.

Landing Gear

201. Two main wheel-brake assemblies
(a) Wheels: Goodrich Model 841 (80.5)
Wheel assembly D-3-13 (Mod.)
Modification in accordance with Beecraft Report D-1, Page 54d.
Brakes: Goodrich Expander Tube Assembly D-2-113.
202. (a) Two main wheel 4 ply-rating tires, 5.00-4 (with regular tubes) (80.5)
203. One steerable nose wheel assembly, 5.00-4
(a) Firestone Assembly Dwg. 5C2M-1 (25)
204. (a) One nose wheel 4 ply-rating tire (with regular tube) (25)

Interior Equipment

401. Seat belt: Air associates Mod. M5100 labeled "Meets Requirements of TSO-C22."
402. Shoulder harness: In accordance with Beecraft Report D-1, Page 70

NOTE 1. The airplane weight and balance must be maintained in accordance with the limitations contained in this specification and placards installed in the airplane. The weight empty must include all items of required equipment and 0.8 gallons of unusable and ungageable fuel which cannot be used safely in all attitudes of flight.

NOTE 2. The following placards must be installed in full view of the pilot:
(a) "This airplane must be operated as a normal category airplane in compliance with the operating limitations stated in the form of placards and markings. No acrobatic maneuvers (including spins) are approved. The shoulder harness must be worn for take-offs and landings."

- (b) "Airplane Flight Manual - Placard
Beecraft Associates - Model HoneyBee
Max. certificated gross wt. - 860 lbs
Airplane empty (including 5 lbs. of ungageable fuel) - 609 lbs.
Airplane empty center of gravity position - 61.2 inches aft of datum
Useful load - Pilot - 170 lbs.
Baggage - 25 lbs.
Fuel - 48 lbs. (53 lbs. total capacity)
Oil - 8 lbs.
Total 251 lbs.

Center of gravity limits - 61.1 in. to 64.0 in. aft of datum

Datum - Most forward point of propeller spinner (52.75 in. ahead of wing leading edge)

Airplane leveling means is the left window sill.

All acrobatic maneuvers including spins are prohibited.

Limit load factor - 3.8 Power off stall speed 53 mph TIAS.

Power plant Continental A-65-8. Propeller Flottorp 65A66.

Max. continuous power 65 HP 2300 rpm full throttle."

- (c) "Maximum Endurance
Max. continuous power 1 hr. 20 min.
Max. cruise power 1 hr. 45 min.

-END-