

AMERICAN EAGLECRAFT COMPANY

MODELS: American Eaglet A-31-1E, 2 PO-CLM

T.C. NUMBER: 2-583 (Approved 7/3/46)

Engine	Continental A-50-8 or A-50-8F
Fuel	73 minimum octane aviation gasoline
Engine limits	For all operations, 1900 rpm (50 hp)
Airspeed limits	Level flight or climb - 100 mph True Ind. Glide or dive - 120 mph True Ind.
Propeller limits	Static rpm at maximum permissible throttle setting. Not more than 1750, not less than

1750.
Diameter: Not more than 76 in., not less than 74.5 in.
C.G. range At 962 lbs. maximum weight: (+12.4) (21.2 percent MAC) to (+18.6) (31.8 percent MAC)
At 1100 lbs. maximum weight: (+17.0) (29.1 percent MAC) to (+18.6) (31.8 percent MAC)
(Straight line variation between forward limits for intermediate weight)
Datum Wing leading edge (with airplane level)
MAC 58.4 in L.E. of MAC at (0)
Leveling means Top longeron on left side in cockpit
Maximum weight 1100 lbs.
No. seats 2 (front at (+15), rear at (+42))
Baggage None
Fuel capacity 10 gallons (-13)
Oil capacity 1 gallon (-38)
Control surface movements Elevator Up 18 degrees Down 19 de
Aileron Up 17 degrees Down 18 de
Rudder Right 48 degrees Left 48 de
Stabilizer Fixed
Serial Nos. eligible 1201 and up (See NOTE A)
Required equipment 1, 101, 201, and 202
Certification basis Airworthiness Certificate only (CAR 04a)
Production basis None (See NOTE A)

Eligible for export as follows, subject to inspection for equipment sp in Chapter XII of Manual of Procedure.

- (a) Canada
 - Landplane - eligible
 - Skiplane - not eligible
- (b) All other countries except Australia and New Zeland.

Equipment:

Items included in required list under specifications pertinent to individual models may not be removed unless replaced by approved equip items.

The effect upon balance of all equipment changes must be computed the aircraft operations record revised accordingly

Values in inches shown in parenthesis after each item represent horizontal arms to the C.G. of the item measured minus (-) ahead and p (+) to the rear of the datum. A plus (+) or minus (-) sign preceding weight of an optional item indicates the net weight change between the item and the equivalent required item.

Propeller and Propeller Accessories

- 1. Propeller (including hub) Fahlin D371-48(76) 16 lbs. (-56) o any other fixed pitch wood propeller eligible for the engine speed and power and which meets the static rpm and diameter limits specified under "Propeller limits" on Page 1.

Engine and Engine Accessories

- 101. Carburetor air heater 2 lbs. (-38)

Landing Gear

- 201. Wheels
 - (a) Goodyear Model 3-LNBM with 18x8-3 4-ply tires 26 lbs. (+2)
 - (b) Goodyear Model L6NBD with 6.00-6 4-ply tires 25 lbs. (+2)
- 202. Tail wheel
 - (a) Uniloy Model 3000-A1 with Firestone 6x2 solid tire 5 lbs. (+20)
 - (b) Scott type 3000B-2 5 lbs. (+20)

Interior Equipment

- 401. Cabin enclosure (American Eaglecraft Drawing D-27-02) 8 lbs. (+29)

Miscellaneous (not listed above)

- 600. Miscellaneous items as noted in the approved weight and balance report.

NOTE A. Each aircraft manufactured must, prior to original certificat satisfactorily pass:

- (a) An inspection for workmanship, materials and conformity to th pertinent technical data before any covering, metal priming c final finish is applied. All woodwork may be varnished.
- (b) A final inspection of the completed aircraft.

(c) A check of the flight characteristics.

NOTE 1. The following permanent placard should be displayed on the instrument panel in full view of the pilot:
"INTENTIONAL ACROBATICS PROHIBITED.
SOLO FROM FRONT SEAT ONLY."