

DEPARTMENT OF COMMERCE
CIVIL AIRCRAFT ADMINISTRATION

<p>A-730 Revision 2 CULVER LCA LFA January 30, 1950</p>
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AIRCRAFT SPECIFICATION NO. A-730

Holder of Type Certificate Superior Aircraft Co.
Wichita, Kansas

I - Model LCA, 2 PCLM

Engine	Continental A-75-8 (See Item 209(a) for optional engine)
Fuel	73 min. octane aviation gasoline
Engine limits	For all operations, 2600 rpm (75 hp)
Airspeed limits	Level flight or climb 145 mph True Ind. Glide or dive 175 mph True Ind.
Propeller limits	Static rpm at maximum permissible throttle setting, Not over 2370, not under 2070. No additional tolerance permitted. Diameter: Not over 70 in., not under 64 in.
C.G. range	(+14.8) to (+19.5)
Empty weight C.G. range	(+15.5) to (+16.8) provided item 206 not installed. When empty weight C.G. falls within this range, computation of critical forward and aft C.G. positions need not be checked. This range is not valid for non-standard arrangements.
Maximum weight	1305 lbs.
No. seats	2 (+26)
Maximum baggage	50 lbs. (+42)
Fuel capacity	20 gals. (-3) (See Item 207 for additional tank)
Oil capacity	1 gal. (-23)
Serial Nos. eligible	100 and up mfd. prior to Oct. 17, 1942. Approval expired as of that date.
Required equipment	Items 101, 102, 103, 104, 105, 106

II - Model LFA, 2 PCLM (Same as LCA except for engine installation)

Engine	Franklin 4AC-176-F3 (See items 209(b), (c) and (d) for optional engines).
Fuel	80 min. octane aviation gasoline
Engine limits	For all operations, 2500 rpm (80 hp)
Airspeed limits	Level flight or climb 145 mph True Ind. Glide or dive 175 mph True Ind.
Propeller limits	Static rpm at maximum permissible throttle setting, Not over 2250, not under 2030. No additional tolerance permitted. Diameter: Not over 70 in., not under 68 in.
C.G. range	(+14.8) to (+19.5)
Empty weight C.G. range	(+15.5) to (+16.8) provided item 206 not installed. When empty weight C.G. falls within this range, critical forward and aft C.G. positions need not be checked. This range is not valid for non-standard arrangements.
Maximum weight	1305 lbs.
No. seats	2 (+26)
Maximum baggage	50 lbs. (+42)
Fuel capacity	20 gals. (-3) (See Item 207 for additional tank)
Oil capacity	5 qts. (-26)
Serial Nos. eligible	100 and up mfd. prior to Oct. 17, 1942. Approval expired as of that date.
Required equipment	Items 101, 102, 104, 105, 106

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Specifications Pertinent to All Models

Datum	Leading edge of wing at fuselage, which is 18 in. forward of wing attachment fitting centerline.
Leveling means	Plumb line from upper rear engine mount attaching bolt to reference mark on bottom longeron.
Certification basis	Type Certificate No. 730 (expired) (CAR 4a)
Export eligibility	Eligible for export to all countries except as follows subject to the provisions of ASR No. 312 (MOP 2-4 contains the same information): Canada - landplane - eligible - skiplane - not eligible

Equipment: A plus (+) or minus (-) sign preceding the weight of an item indicates net weight change when that item is installed.

Propellers and Propeller Accessories

	<u>LCA</u>	<u>LFA</u>
1. Propeller - McCauley 1A90 with the following limits: Static rpm at max. permissible throttle setting: Not over 2370, not under 2270. No additional tolerance permitted. Diameter: Not over 70 in., not under 68.5 in.	26 lbs. (-42)	-----
101. Propeller - wood, fixed or adjustable pitch	13 lbs. (-42)	15 lbs. (-41)
102. Carburetor air heater	1 lbs. (-27)	4 lbs. (-24)
103. Oil radiator (Continental)	5 lbs. (-34)	-----
204. Starter (Auto-lite MBG-4009)	-----	15 lbs. (-16)
206. Fuel tank - 15 gals. - Aft of seat. (Item 207 or 208 required when this item installed)	8 lbs. (+50)	8 lbs. (+50)
207. Oil tank - 8 qts. (Dwg. 551)	+2 lbs. (-23)	-----
208. Oil pan - 8 qts. (Franklin)	-----	+2 lbs. (-26)
209. Engines		
(a) Continental A-75-9	+3 lbs.	-----
(b) Franklin 4AC-176-F2	-----	neg. wt. change
(c) Franklin 4AC-176D2 or 4AC-176D3 Fuel: 80 min. octane aviation gasoline Engine limits: For all operations, 2650 rpm (80 hp) Propeller limits: Static rpm at max. permissible throttle setting - not over 2290, not under 2190. No additional tolerance permitted. Diameter: Not over 70 in., not under 68 in.	-----	no wt. change
(d) Franklin 4AC-199E3 Fuel: 80 min. octane aviation gasoline Engine limits: For all operations, 2500 rpm (90 hp) Propeller limits: Static rpm at max. permissible throttle setting - not over 2300, not under 2200. No additional tolerance permitted. Diameter, not over 70 in., not under 68 in.	-----	No wt. change
211. Oil radiator (Harrison)	-----	4 lbs. (-32)
301. Engine primer	Neglect weight change	
305. Cabin heater	2 lbs. (-16)	2 lbs. (-16)

Landing Gear

104. 5.00-4 wheels, Goodrich (Formerly Hayes) 451M with E.T. brakes	10 lbs. (+9)	10 lbs. (+9)
105. 6 ply tires and tubes 13 lbs. (+9)		13 lbs. (+9)
106. Tail wheel assembly, Heath, with 6x2.00 cushion tire	5 lbs. (+160)	5 lbs. (+160)
303. Tail wheel assembly, Universal tail wheel fork and Firestone-Shinn wheel, with 6x2.00 cushion tire	No weight change	
304. 5.00-4 wheels, Culver 304 with Goodrich (Formerly Hayes) E.T. brakes	+4 lbs. (+9)	+4 lbs. (+9)
307. Parking brake	1 lb. (-3)	1 lb. (-3)

Propellers and Propeller Accessories (cont'd)LCALFAElectrical Equipment

201.	Battery and box		
	(a) Exide 6-AC-7-1	16 lbs. (-17)	-----
	(b) Reading R24L	-----	24 lbs. (+40)
202.	Landing lights (Item 210(a) or (b) reqd. for LCA)		
	(a) One Grimes ST-250	4 lbs. (+29)	4 lbs. (+29)
	(b) Two Grimes ST-250	-----	8 lbs. (+29)
203.	Generator - engine driven (Auto-lite GDY-4106)	-----	12 lbs. (-15)
210.	Generators - wind driven		
	(a) Air Associates GE-20	7 lbs. (+18)	-----
	(b) Lear 1030A	8 lbs. (+18)	-----
308.	Dome light	1 lb. (+30)	1 lb. (+30)

Interior Equipment

306.	Cabin ventilator	Neglect weight change	
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NOTE 1. Current weight and balance report including list of equipment included in certificated weight empty, and loading instructions when necessary, must be in each aircraft at the time of original certification and at all times thereafter (except in the case of air carrier operators having an approved weight control system).

NOTE 2. The following placard shall be installed on the instrument panel in full view of the pilot and included on the aircraft operation record: "Intentional acrobatics and instrument flight prohibited."

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