

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

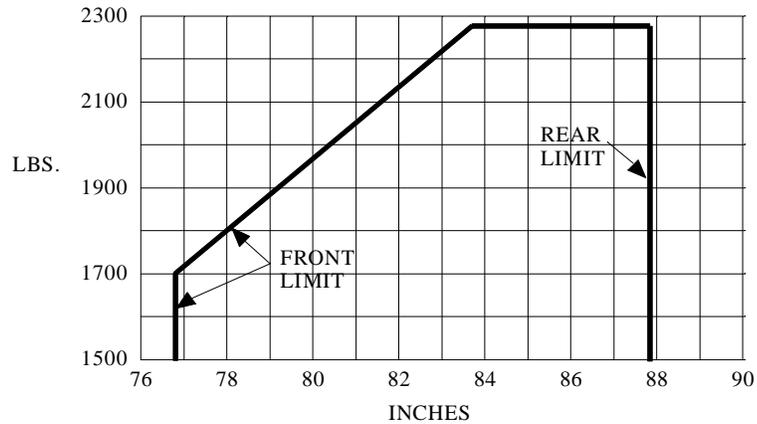
A-804 Revision 11 LAND-AIR (TEMCO) (LUSCOMBE) 11A August 15, 1996

AIRCRAFT SPECIFICATION NO. A-804

Type Certificate Holder	Luscombe Aircraft Corporation 4480 South Meridian Lot 49 Wichita, Kansas 67207
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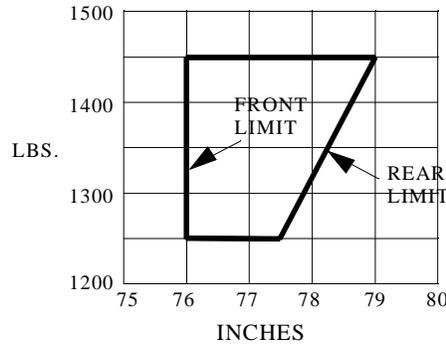
I. Model 11A, 4 PCL (Normal Category), approved October 4, 1948

Engine	Continental E165-2 (see Item 106 for optional engines)	
Fuel	80 min. octane aviation gasoline	
Engine Limits	For all operations, 2050 rpm (165 hp)	
Propeller Limits	Static rpm at maximum permissible throttle setting, not over 1825, not under 1725. No additional tolerance permitted. Diameter, not over 80 in., not under 78.5	
Airspeed Limits	Maneuvering	114 mph (99 knots) True Ind.
	Maximum structural cruising	145 mph (126 knots) True Ind
	Never exceed	180 mph (157 knots) True Ind.
	Flaps extended	100 mph (87 knots) True Ind.
C.G. Range	(+83.7) to (+87.9) at 2280 lbs. (+76.9) to (+87.9) at 1700 lbs. or less Straight line variation between points given.	



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Empty Weight C.G. Range (+76.0) to (+79.0) at 1450 lbs. empty weight
 (+76.0) to (+77.5) at 1450 lbs. empty weight
 Straight line variation between points given.
 When empty weight C.G. falls within this range, computation of critical fore and aft C.G. positions is unnecessary. Range is not valid for nonstandard arrangements.



Maximum Weight	2280 lbs.				
No. of Seats	2 (+86) and 2 (+122)				
Maximum Baggage	100 lbs. (+123)				
Fuel Capacity	40 gal. (Two 20 gal. tanks in wings) (+86)				
Oil Capacity	2.5 gal. (+35)				
Control Surface Movements	Ailerons	Up	15 ± 1	Down	9 ± 1
	Elevators	Up	29 ± 1	Down	13 ± 1
	Rudder	Right	15 + 0	Left	15 + 0
			- 1		- 1
	Wing Flaps			Down	35 ± 1
	Elevator Tabs	Up	12 ± 1	Down	40 ± 1

The airplane control system must be rigged and maintained in accordance with the Rigging Instructions of Luscombe Model 11A Flight Manual, Section II.

Serial Nos. eligible 11-104 and up manufactured prior to October 29, 1956.

Required equipment In addition to the pertinent required basic equipment specified in CAR 3, the following items of equipment must be installed:
 1, 102, 103, 104, 105, 201(a), 202(a), 204(a), 402(a)
 For night flying, cabin dome light and instrument lights or equivalent to provide illumination of all placards and instruments are required in addition to equipment required by Part 43.

Specifications Pertinent to All Models

Datum	100 in. forward of vertical bulkhead forming the rear frame of main door.
Leveling means	Floor at front seat attaching angles.
Certification basis	Type Certificate No. 804 (CAR 3, Normal Category)
Export eligibility	Eligible for export to all countries subject to the provisions of MOP 2-4 except as follows: 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. Approval for the installation of all items of equipment listed herein has been obtained by the aircraft manufacturer except those items preceded by an asterisk (*). The asterisk denotes that approval has been obtained by someone other than the aircraft manufacturer. An item marked with an asterisk may not have been manufactured under a CAA monitored or approved quality control system, and therefore attention should be paid to workmanship and conformity with pertinent data called for in this specification.

Propellers and Propeller Accessories

1. Propeller - Sensenich Model 80EY80 or any other fixed pitch wood propeller rated for required hp and rpm and meeting the propeller limits under Section 1. 22 lbs. (+5)
2. Propeller - Hartzell automatic two-position, Hub Model HC-42XF-2, blades model 8428-1
Diameter: Not over 83 in., not under 81.5 in.
Blade angle at 30" station: Low 15, high 22.2
Propeller to be installed and operated in accordance with the above limitations and approved Hartzell service instructions. CAA Approved Flight Manual Revision pages 1.1 and 6.1, dated April 21, 1949, must be inserted in Item 402(a) when this propeller is installed. 59 lbs. (+5)
3. Spinner - Hartzell Propeller (Luscombe Dwg. 11-6402) 2 lbs. (+5)
4. Propeller - Hartzell automatic two-position, Hub Model HC-42XF-2, Blades 8433-1
(Eligible only on E-185-2 engine with dampered crankshaft identified by the letter "D" after the engine serial number.)
Diameter: Not more than 83 in., not less than 81.5 in.
Blade angle at 30" station: Low 17; high 24.
Counterweight length 3.490".
Low rpm (high pitch) to high rpm (low pitch) latch operation - not less than 1550 rpm
Item 402(b) required when this propeller is installed. 59 lbs. (+5)

Engine and Engine Accessories - Fuel and Oil System

101. Starter (Delco-Remy #1109660) Solenoid type 21 lbs. (+42)
102. Oil radiator - (Harrison #7434) 7 lbs. (+43)
103. Carburetor air heater 1 lb. (+23)
104. Kay exhaust muffler system 12 lbs. (+30)
105. Carburetor air filter 1 lb. (+18)
106. Continental E185-2 engine No change
Fuel: 80 Octane minimum
Engine limits: For all operations 2300 rpm (185 hp). When the E185-2 engine is installed, the airplane fuel system and oil cooling system must comply with Luscombe Dwgs. 11-6601C (Arrangement 2), 11-1702C, and 11-6701C.

Landing Gear

201. 2 Main wheel-brake assemblies, 6.00-6 Type III 14 lbs. (+65)
 - (a) Goodyear Model L6HBD
Wheel Assembly #511413-M
Brake Assembly #9520292
202. (a) 2 Main Wheel 4-ply-rating tires, 7.00-6 Type III (with regular tubes) 19 lbs. (+65)
204. Tail Wheel Assembly
 - (a) Maule, Model SFS-12, steerable 5 lbs. (+266)
Tire size 6.00 X 2.50
 - *(b) Scott, Model 3200, steerable 8 lbs. (+266)
Tire size 8.50 X 2.50

Electrical Equipment

301. Generator, 12 volt (Delco-Remy #1101879)	14 lbs. (+42)
302. Battery - Willard Manifold Venti Type AW-12-25 12 volt 25 amph. hr.	
(a) With Item 1 installed	22 lbs. (+46)
(b) With Item 2 installed	22 lbs. (+152)
303. Voltage regulator (Delco-Remy #1118200)	2 lbs. (+49)
304. Battery Solenoid - Cutler Hammer (#6042-H109A)	1 lb. (+49)
305. 2 Landing lights - Luscombe Dwg. #11-8105 with G.E. Lamp #4509	2 lbs. (+13)

Interior Equipment

401. Cabin heater Luscombe Dwg. 11-8602	2 lbs. (+49)
402. (a) FAA Approved Airplane Flight Manual dated May 26, 1948	
*(b) Airplane Operation Limitations Supplement to Item 402(a) for Hartzell Snap-O-Matic propeller on Luscombe 11A, dated October 10, 1949.	

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 placards must be displayed in front of and in clear view of the pilot:
(a) "This airplane must be operated as a normal category airplane in compliance with the flight manual."
(b) "With two people in rear seat, both front seats must be occupied."

NOTE 3. Reserved.

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