

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A-676
Revision 2
AERONCA
KM
50-M
March 7, 2005

AIRCRAFT SPECIFICATION NO. A-676

Type Certificate Holder	National Aeronca Association 806 Lockport Road P.O. Box 2219 Terre Haute, IN 47802
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Name change from Aeronca to National Aeronca Association March 7, 2005.

I - Model KM, 2 PCLM, Approved April 26, 1938.

Engine	Menasco Pirate M-50
Engine limits	For all operations, 2500 rpm (50 hp)
Airspeed limits	Level flight or climb - 100 mph True Ind. Glide or dive -- 135 mph True Ind.
Propeller	Maximum permissible diameter 81 in.
C.G. range	(+13.4) to (+20.5)
Empty weight C.G. range	Not available
Maximum weight	1150 lbs.
Number of Passengers	1 (+21)
Maximum baggage	40 lbs. (aft of seat) (+45)
Fuel capacity	10 gallons (-10)
Oil capacity	1 gallon (in engine) (-32)
Serial Nos. eligible	KM-1 and up manufactured prior to 12-11-42 eligible. Approval expired as of that date.

II - Model 50-M, 2 PCLM, Approved October 19, 1938.

(Same as model KM except for wide cabin. No structural changes.)

Engine	Menasco Pirate M-50
Engine limits	For all operations, 2500 rpm (50 hp)
Airspeed limits	Level flight or climb - 100 mph True Ind. Glide or dive -- 135 mph True Ind.
Propeller	Maximum permissible diameter 81 in.
C.G. range	(+13.4) to (+20.5)
Empty weight C.G. range	Not available
Maximum weight	1150 lbs.
Number of Passengers	1 (+21)
Maximum baggage	40 lbs. (aft of seat) (+45)
Fuel capacity	12 gallons (-10)
Oil capacity	1 gallon (in engine) (-32)
Serial Nos. eligible	M-1018 and up manufactured prior to 12-11-42 eligible. Approval expired as of that date.

Specifications Pertinent to all Models

Datum	Wing leading edge
Leveling means	Not available
Certification basis	Approved Type Certificate 676 (expired) (CAR 04)

Equipment: (* Means net increase.)

Class I.

101.	6.00-6 wheels (Shinn 6C4) with tires	21 lbs.	(- 1)
102.	Tail skid		
103.	Propeller -- wood (fixed or adj. pitch)	8 lbs.	(-43)
104.	Carburetor air heater	2 lbs.	(-31)

105. Wheel type control (Dwg. 7-35)

Class III.

301.	Wheels		(-1)
	(a) 3 inch (Goodyear 3-LMBM) with brakes	10 lbs.*	
	(b) 6.00-6 (Shinn 6C4B or 6C4HB) with brakes	5 lbs.*	
	(c) 3 inch (Goodyear 3-LNBM)	1 lb.*	
302.	Tires		
	(a) 18x8-3 with tubes	4 lbs.*	(- 1)
	(b) 16x7-3 with tubes	Neglect weight	
303.	Tail wheel installations		
	(a) Shock cord type with 6x2.00 wheel and pneumatic tire (Dwg. 7-27)	1 lb.*	(+174)
	(b) Leaf spring type with 6-inch wheel and solid tire (Dwg. 4-104)	2 lbs.*	(+180)
	(c) 6x.200 steerable	3 lbs.*	(+179)
304.	Cabin heater	2 lbs.	(- 28)
305.	Carpet	2 lbs.	(+ 1)
306.	Wheel streamlines	8 lbs.	(- 1)
307.	Battery (Exide 3-AC-7-1)	13 lbs.	(+ 46)
308.	Extra door	2 lbs.	(+ 21)
309.	5-gallon auxiliary fuel tank installation (See Note 1)	10 lbs.	(+ 29)
310.	Special instruments	6 lbs.	(- 1)
311.	Parachutes (one or two)	20 lbs.each	(+ 21)
312.	Radio equipment		
	(a) Receiver (RCA AVR-15 or -15A)	11 lbs.	(- 5)
	(b) Receiver (RCA AVR-10 or -10A)	9 lbs.	(- 7)
	(c) Receiver (Learadio AMR-1 or AMRL-1)	11 lbs.	(+ 43)
	(d) Transmitter (Learadio AMT-1)	9 lbs.	(+ 45)
	(e) Loop antenna	2 lbs.	(+ 36)
	(f) Trailing antenna 1 lb.		
	(g) "T" type antenna Neglect weight		
	(h) Reel type trailing antenna	3 lbs.	(+ 79)
313.	Stick type control (Dwg. 7-70)	No weight change	
314.	Landing lights (Grimes ST-250) one or two	5 lbs. each	(+ 17)
315.	Parking brake installation	1 lb.	(+ 6)
316.	Generator -- wind-driven (Air Assoc. G-6 or G-12)	8 lbs.	(+ 9)
317.	Skis	Use actual weights	
	(a) Washington Aircraft 1200		
	(b) Federal SA-1 or SA-2		
	(c) Federal SC-1 or SC-2		
	(d) Marston MFS-1200		
	(e) Marson MFS-1600		
	(f) Jennings TY-2		
	(g) Richards 1-B		
	(h) Graf-Shupe A		
	(i) Heath 655		

Note 1: Fuel arm of auxiliary tank (+48).

Note 2: Eligible for export as follows, subject to provision of Chapter XII of Inspection Handbook: (6-2-41)

- a. Great Britain
- b. All other countries except Canada, Australia, and New Zealand.

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