

DEPARTMENT OF COMMERCE  
CIVIL AERONAUTICS ADMINISTRATION

4A14  
MORRISEY  
2000C

February 28, 1956

AIRCRAFT SPECIFICATION NO. 4A14

Manufacturer  
Morrisey Aviation, Inc.  
Orange County Airport  
Santa Ana, California

I - Model 2000C, 2 PCLM (Normal Category), Approved December 8, 1955

Engine	Continental C90-14F equipped with Marvel-Schebler carburetor MA-3SPA		
Fuel	80/87 min. grade aviation gasoline		
Engine limits	Takeoff (one minute),	2625 rpm ( 95 hp)	
	For all other operations	2475 rpm ( 90 hp)	
Airspeed limits	Maneuvering	108 mph ( 94 knots)	True Ind.
	Design Cruising	124 mph (108 knots)	True Ind.
	Never Exceed	154 mph (134 knots)	True Ind.
	Flap Speed	78 mph ( 68 knots)	True Ind.
C.G. range	(+11.2) to (+18.2)		
Empty weight C.G. range	None		
Maximum weight	1450 lbs.		
No. seats	2 (One at +15.5 and one at +45.5)		
Maximum baggage	None		
Fuel capacity	14.7 gals. total, 12.7 gals. usable (-13.5). See NOTE 2(a)(3) for placard and NOTE 1 for weight and arm of unusable fuel.		
Oil capacity	5 quarts		
Control surface movements	Elevator	19° Up	9° Down
	Aileron	12° Up	12° Down
	Rudder	30° Right	30° Left
	Flap	30° Down	
Serial Nos. eligible	1A only		
Required equipment	In addition to the pertinent required basic equipment specified in CAR 3, the following items of equipment must be installed: Items 1, 101, 102, 201(a), 202(a), 205(a), 206(a), and 401.		

Specifications Pertinent to All Models

Datum	Wing leading edge
Leveling means	Top longitudinal longeron member in cockpit
Certification basis	Type Certificate No. 4A14 (CAR 3)
Production basis	Type Certificate only.
Export eligibility	Eligible for export to all countries subject to the provisions of MOP 2-4 except as follows: (a) Canada landplane, 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 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.

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Propellers and Propeller Accessories

The following propellers are eligible at the limits shown for diameter and static rpm at maximum permissible throttle setting, no additional tolerance permitted.

1. Propeller-McCauley "Met-L-Prop" 1A90-CF, fixed pitch metal  
 Static r.p.m.: Not over 2250, not under 2150  
 Diameter: Not over 71 in., not under 69.5 in. 21 lbs. (-50.5)

Engine and Engine Accessories - Fuel and Oil System

101. 2 Heaters and mufflers, "Ryan"
102. Starter, Delco Remy 12v Model 12F 16 lbs. (-26.5)

Landing gear

201. Two main wheel-brake assemblies, 6.00-6 14 lbs. (-27)
  - (a) Firestone Model DFA-207-1  
 Wheel assembly DFA-180-1  
 Brake assembly CFA252
202. (a) 2 main wheel 4 ply rating tires, 6.00-6 with regular tubes 18 lbs. (-27)
205. One nose wheel, 5.00-5 3 lbs. (-30)
  - (a) Firestone, Model DFA531-1
206. (a) One nose wheel, 4 ply rating tire 5.00-5, with regular tubes 7 lbs. (-30)

Electrical equipment

301. Generator, Delco Remy, 20a, 12v, Model 12F10 lbs. (-26.5)
302. Voltage regulator, Delco Remy Model 9041 lbs. (-22)
303. Battery, Willard Model SYW-7-6, 12v15 lbs. (-23)

Interior Equipment

401. (a) CAA Approved Airplane Flight Manual dated December 8, 1955

NOTE 1. Current weight and balance report including list of equipment included in certificated empty weight 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). The certificated weight empty and corresponding center of gravity location must include unusable fuel of 12 lbs. at (-13.5).

NOTE 2. The following placards must be displayed:

- (a) On the instrument panel in full view of the pilot:
  - (1) "Operate in Normal Category in compliance with approved Flight Manual.  
 Acrobatics (including spins) prohibited."
  - (2) "Solo from the front seat only."
  - (3) "Of the 14.7 gals fuel cap., 2 gals. are unusable and unmeasurable."

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