

FEDERAL AVIATION ADMINISTRATION

A8NM
Revision 3
FAIRCHILD
C-119F/R4Q2
June 6, 1984

TYPE CERTIFICATE DATA SHEET NO. A8NM

This data sheet which is a part of Type Certificate No. A8NM prescribes the conditions and limitations under which the Type Certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder DMI Aviation, Inc.
5080 East Nebraska
Tucson, Arizona 85706

I - MODEL (FAIRCHILD) C-119F/R4Q2 (RESTRICTED CATEGORY) APPROVED March 31, 1982

Engine	2 Wright R-3350-89, 89A, 89B/95W, 36W, 36WA
Fuel	115/145 - Alternate 100/130 Minimum grade aviation gasoline
Engine limits	2900 rpm (3420 hp) Takeoff, wet, low blower 2900 rpm (2600 hp) Maximum, dry, low blower 2600 rpm (2555 hp) Meto, low blower 2600 rpm (1710 hp) 10,000 ft. Alt., Meto, high blower 2300 rpm (1520 hp) 10,000 ft. Alt., Cruise, high blower 2100 rpm (1430 hp) 10,000 ft. Alt., Cruise, high blower See NATOPS Flight Manual NAVAIR 01-115CCB-1
Propeller	Hamilton Standard P/N 24260-615 (hub); C-2J17AA-3-26R (blades)
Airspeed	Vne - Never exceed (217 knots) Vc - Structural Cruising (176 knots) Va - Maneuver (162 knots) Flaps or gear extended (140 knots)
C.G. range	Aft of datum +318.3" to +335.2" at all Wts.
Datum	Fus. Station 0 (103.8" forward of jig point fitting on front jack pad)
Max. gross weight	71,500 lbs.
Max. landing weight	69,970 lbs.
Max. zero fuel weight	60,500 lbs. (Outer wing tanks to be full before fuel is added to inner wing tanks).
Leveling means	Eye bolt at ceiling station 310 for plumb bob suspension to cross lined plates under cargo floor between stations 310 and 333.
Number of seats	Limited to the Flight Crew and number of persons essential to perform the intended function of this operation.
Fuel capacity	2798 total - 2 outboard fuel tanks 905 gal. ea. (+354.5) 2 inboard fuel tanks 494 gal. ea. (+354.5)

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Oil capacity 120 gal. total - 2 nacelle tanks 60 gal. ea. (+338.4)

Cargo capacity See NAVWEPS 01-115CC-9

Control surface movements (See NAVAIR 01-115CCB-2 Sec. II, Fig. 2-11, numbers in degrees)	Aileron	Up	24 ± 1	Down	12 ± 1
	Flettner Tab	Up	$17 + 4 - 2$	Down	$30 + 6 - 2$
	Trim Tab	Up	$15 \pm 1 \frac{1}{2}$	Down	$12 \pm 1 \frac{1}{2}$
	Elevator	Up	$24 \frac{1}{2} \pm 1 \frac{1}{2}$	Down	$20 \frac{1}{2} \pm 1 \frac{1}{2}$
	Spring Tab	Up	$17 + 0 - 5$	Down	$24 + 2 - 0$
	Trim Tab	Up	12 ± 2	Down	22 ± 2
	Rudder	Right	$25 + 2 - 0$	Left	$20 + 2 - 0$
	Spring Tab	Right	5 ± 1	Left	5 ± 1
	Trim Tab	Right	$10 \frac{1}{2} \pm 1$	Left	$10 \frac{1}{2} \pm 1$
	Wing Flaps	Take-off		Down	15
	Landing		Down	40	

Serial Numbers	<u>Military Serial Numbers</u>	<u>Manufacturers Serial Numbers</u>
	131669	10836
	131673	10840
	131700	10855
	131677	10844

Certification basis FAR 21.25(a)(2) dated May 1974 Amendment 21-1 thru 21-53.
Restricted Category
Type Certificate issued on March 31, 1982.
Date of Application: October 19, 1981

Airplane certified for the special purpose of carriage of cargo.

Production basis None - prior to original certification of each aircraft, an FAA representative must perform an inspection for airworthiness, workmanship, materials, and conformity with the approved technical data. The FAA representative must verify that the aircraft records are complete, that no major modifications have been accomplished, and that the aircraft was never exported from the United States.

Equipment The basic required equipment as prescribed in the applicable Airworthiness Regulations (See Certification Basis), must be installed in the aircraft for certification. In addition, an FAA approved DMI Aviation, Inc. Airplane Flight Manual Supplement is required in addition to the operating limitations specified in Sec. I, Part 4 of NAVAIR 01-115CCB-1.

NOTE 1. Current weight and balance report and loading instructions must agree with Sec. I, Part 4 of NAVAIR 01-115CCB-1.

NOTE 2. This approval applies to the basic military C-119F, R4Q2 with no major modifications. In addition,

- (1) Operation over densely populated areas is prohibited.
- (2) In addition to the operating limitations in this data sheet, area, economic, passenger and other appropriate operating limitations in accordance with FAR 21.25 shall be shown on placards or listing accessible to the pilot.
- (3) The following placard must be displayed in front of and in clear view of the pilot:
"This airplane must be operated as a restricted category airplane in compliance with the operating limitations stated in the form of placards, markings, and manuals."
- (4) Red radial line required on airspeed indicator at (217 knots).

- (5) The following placard must be displayed adjacent to the APU operating switch:

"APU operation prohibited in flight"

- (6) Carriage of hazardous materials is prohibited unless compliance is shown with the applicable regulations in the Code of Federal Regulation 49, Part 175.

NOTE 3. The aircraft must be serviced and maintained in accordance with NAVAIR 01-115CCB-2.

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