

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A5NW
Revision 4
FAIRCHILD
C-119L

June 29, 1981

TYPE CERTIFICATE DATA SHEET NO. A5NW

This data sheet which is a part of Type Certificate No. A5NW prescribes the conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder Starbird, Inc.
 9333 Stitch Road
 Lake Stevens, Washington 98258.

I - MODEL UNITED STATES AIR FORCE (FAIRCHILD) C-119L (RESTRICTED CATEGORY) APPROVED May 31, 1979

Engine	2 Wright R-3350-89, 89A, 89B/95W
Fuel	100/130 Minimum Grade Aviation Gasoline
Engine limits	2900 rpm (3500 hp) Takeoff, wet, low blower 2900 rpm (2800 hp) Maximum, dry, low blower 2600 rpm (2600 hp) Meto, low blower 2600 rpm (1760 hp) 10,000 ft. Alt., Meto, high blower 2300 rpm (1560 hp) 10,000 ft. Alt., Cruise, high blower 2100 rpm (1460 hp) 10,000 ft. Alt., Cruise, high blower
Propeller	Hamilton, Standard 43H60-603 or 605 Hubs with R-A6959B-0 blades. See Note 2.
Airspeed limits	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. Sta. 0 (103.8" forward of jig point fitting on front jack pad)
Maximum gross wt.	71,500 lbs.
Maximum landing weight	69,970 lbs.
Maximum zero fuel weight	61,240 lbs. (Outer wing tanks to be full before fuel is added to inner wing tanks).
Leveling means	Eye bolt at cabin 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	3624 total - 2 outboard fuel tanks 855 Gal. each (+354.5) - 2 inboard fuel tanks 457 Gal. each (+354.5) - 2 auxiliary fuel tanks in fuselage. 500 Gal. each (+338.0).

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Oil capacity	120 gal. total - 2 nacelle tanks 60 gal. each (+338.4)	Applicable Serial No. (AF) 51-2662 thru 51-8030 51-5098 " 51-8168 51-17365 " 51-17367 52-6000 " 52-6003 53-8069 " 53-8132
Oil capacity (cont'd)	109 gal. total - 2 nacelle tanks 54.5 gal. each (+338.4) (includes any AF C-119G Serial No. except those listed above.	51-8031 thru 51-8097 52-5840 thru 52-5954 52-6004 thru 52-7884 53-8133 thru 53-8156
Cargo capacity	See T.O. 1C-119L-1 Section V	
Control surface movements (See Sec. VIII T.O. 1C-119G-1-1, Page 8-4)	Aileron Up 24" \pm 1" Down 12" \pm 1" Flettner Tab Up 17" \pm 4" - 2" Down 30" \pm 6" - 2" Trim Tab Up 15" \pm 1 1/2" Down 12" \pm 1 1/2" Elevator Up 24 1/2 \pm 1 1/2" Down 12" \pm 1 1/2" Spring Tab Up 17" \pm 0" - 5" Down 24" + 2" - 0" Trim Tab Up 12" \pm 2" Down 22" + 2" Rudder Right 25" + 2" - 0" Left 20" + 2" - 0" Spring Tab Right 5" \pm 1" Left 5" \pm 1" Trim Tab Right 10 1/2" \pm 1" Left 10 1/2" \pm 1" Wing Flaps Take-off Down 15" Landing Down 40"	
Serial Numbers eligible (See NOTE 2A)	<u>Air Force Serial Numbers</u> 51-2662 thru 51-8168 51-17365 thru 51-17367 52-6000 " 52-7884 52-5840 " 52-5954 53-3137 " 53-3193 53-3201 " 53-3216 53-7836 " 53-7884 53-8069 " 53-8156	<u>Manufacturers Serial Numbers</u> For aircraft exported and returned to U.S. 10676-10678 10702-10726 10735-10738 10773-10776 10823-10825 10870-10872 10905-10908 10942-10945 10954-10957 10992-10994 11219
Certification basis	FAR 21.25(a)(2) dated May 1974 Amendment 21-1 thru 21-46 Restricted Category Type Certificate issued on May 31, 1979. Date of Application: January 21, 1979. 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 workmanship, materials, and conformity with the approved technical data.	
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 Starbird Airplane Flight Manual Supplement is required in addition to the operating limitations specified in Sec. V of T. O. 1C-119L-1.	

NOTE 1. Current weight and balance report and loading instructions must agree with Sec. V of T.O. 1C-119L-1.

- NOTE 2. This approval applies to:
- A. Basic United States Air Force C-119G airplanes modified to C-119L in accordance with USAF T.O. 1C-119-688 with no other major modification except loading assist device installation per Starbird Drawing SI-1000.
 - B. Airplane certified for special purposes of carriage of cargo.
 - (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 state in the form of placards, markings, and manuals."
 - (4) Red radial line required on airspeed indicator at 217 knots.
 - (5) 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 USAF T.O. 1C-119G-2-1.

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