

FEDERAL AVIATION ADMINISTRATION

A11NM
Revision 1
Boeing
C97G

June 9, 1983

TYPE CERTIFICATE DATA SHEET NO. A11NM

This data sheet which is a part of Type Certificate No. A11NM 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 West Coast Fabrications
1524 Spruce Avenue
Chico, CA 95926

I - Model C-97G (Restricted Category), approved June 01, 1983

Engines	4 - P & W R-4360-59B
Fuel	Aviation gasoline 115/145 Grade For Alternate Fuels see T.O. 1C-97G-1 Section V
Engine limits	Maximum Wet Power, Sea Level 3,500 BHP @ 2700 RPM and 247 TPSI (Torque Pressure) Maximum Dry Power, Sea Level 3,250 BHP @ 2700 RPM and 230 TPSI (Torque Pressure) See Airplane Flight Manual T.O. 1C-97G-1 and Appendix T.O. 1C-97G-1-1 Part 2 for complete engine power and performance data.
Propellers	4 - Hamilton Standard 34G60, Blade No. R-C7021D-8 See T.O. 1C-97G-1 Section V for limitations
Airspeed limits	V _{ne} = 302 knots or Mach 0.62 whichever is less V _a = 206 knots IAS Maneuvering V _f = 155 knots IAS for 55% to 100% flaps = 190 knots IAS with flaps to 55% V _{lo} = 200 knots IAS Landing Gear Extension Speed Maximum Cargo Doors Open and Aerial Delivery Speed V = 155 knots IAS
C.G. range	Operating Range 18.5% to 30.5% MAC
Datum	50 in. fwd of nose (Distance from datum to nose jacking cone 228.6 in.)
Leveling means	Indicator below floor in forward lower compartment (Sta. 356)
Maximum gross weight Take Off	153,000 lbs.
Landing weight (10 FPS Sink Speed) (8.3 FPS Sink Speed)	130,000 lbs. 153,000 lbs.

(Note: Chart for Contact Sinking Speed between 130,000 and 153,000 lbs. provided in Flight Manual T.O. 1C-97G-1)

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Maximum Zero Fuel Weight	128,000 lbs. (See Flight Manual for Fuel Loading distribution and limitations)
Minimum crew	Pilot, Copilot, and Flight Engineer
Fuel capacity	7,790 gals. total - 2 outboard tanks 1,770 gal. each - 2 inboard tanks 1,520 gal. each - 1 Center Wing tank 1,210 gal.
Oil capacity	186 gals. total - 4 engine tanks 32.5 gal. each - 2 transfer tanks 56 gal.
Cargo capacity	See Flight Manual T.O. 1C-97G-1 Section V

Control surface movements

<u>CONTROL SURFACE</u>	<u>POSITION</u>	<u>MOVEMENT FROM NEUTRAL POSITION IN DEGREES</u>	<u>TRAILING EDGE MOVEMENT IN INCHES</u>
AILERONS	UP	25 (\pm 1)	9.22 (\pm .38)
	DOWN	25 (\pm 1)	9.22 (\pm .38)
AILERONS TRIM TABS	UP	5.5 (\pm 1)	.75 (\pm .06)
	DOWN	5 (\pm 1)	.75 (\pm .06)
ELEVATORS	UP	20 (\pm 1)	12.45 (\pm .62)
	DOWN	15 (\pm 1)	9.36 (\pm .62)
ELEVATOR TRIM TABS RIGHT	UP	12 (\pm 2)	2.55 (\pm .43)
	DOWN	12 (\pm 2)	2.55 (\pm .43)
LEFT - WING FLAPS UP, NEUTRAL POSITION OF TRIM TAB WITH ELEVATOR IN NEUTRAL POSITION	UP	1.5 (+ .5/- .25)	.32 (+ .11/- .05)
WING FLAPS DOWN 45 DEGREES, ELEVATOR IN NEUTRAL POSITION MEASURED FROM POSITION GIVEN ABOVE	UP	3 (\pm 1/2)	64 (\pm .11)
RUDDER (BY PEDAL WITH RUDDER BOOST ON)	RIGHT	22 (\pm 1)	24.94 (\pm 1.12)
	LEFT	22 (\pm 1)	24.94 (\pm 1.12)
(BY TRIM KNOB WITH RUDDER BOOST ON)	RIGHT	15.5 (+ 1/-1.5)	17.62 (+ 1.11/-1.69)
	LEFT	15.5 (+ 1/-1.5)	17.62 (+ 1.11/-1.69)
RUDDER TAB	RIGHT	20 (\pm 1)	2.95 (\pm .15)
	LEFT	20 (\pm 1)	2.95 (\pm .15)
WING FLAPS	DOWN	45 (\pm 2)	

Serial Numbers eligible
(See Note 2A and 2B)
(See Note 5)

Manufacturers Serial Numbers

For aircraft exported and returned to United States

AF51- 7260 thru AF51-7271, AF52-526 thru AF52-938, AF52-2602 thru AF52-2692, AF52-2694 thru AF52-2716, AF52-2763 thru AF52-2806, AF53-106 thru AF53-365, AF53-3815 and AF53-3816

Data Pertinent To All Models

Certification basis

FAR 21.25(a)(2) and (b)(7) dated February 6, 1982, Amendment 21-1 through 21-56

Restricted Type Certificate issued

Production basis

None - Prior to original airworthiness certification of each aircraft, an FAA representative must perform an inspection for workmanship, materials, and conformity with the approved technical data and assure that the applicant has conducted a satisfactory flight test.

Equipment
(See NOTE 6)

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 Airplane Flight Manual Supplement is required in addition to Flight Manual T.O. 1C-97G-1.

NOTE 1. Current weight and balance report and loading instructions must agree with Section V of United States Air Force T.O. 1C-97G-1 Manual for the C-97G airplane.

NOTE 2. A. This approval applies to basic United States Air Force Boeing C97G aircraft with no major modifications except as described in data per West Coast Fabrications FAA approved Drawing List WC971, Revision 3, dated June 07, 1983, or later FAA approved revision thereto.

B. Airplane certified for the special purpose of carriage of cargo.

- (1) 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.
- (2) Carriage of hazardous materials is prohibited unless compliance is shown with applicable regulations in Code of Federal Regulations 49, Part 175.
- (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."

NOTE 3. The aircraft must be serviced and maintained in accordance with USAF T.O. 1C-97(K)E(C)-2-1.

NOTE 4. All cargo must be loaded and restrained in accordance with USAF T.O. 1C-97G-1, Section. V.

NOTE 5. The following note must be placed under "exceptions" on all Export Certificates of Airworthiness for this aircraft. "This aircraft is type certificated in the restricted category and may not meet the applicable airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation.

NOTE 6. USAF T.O. 1C-97G-1 must be available in the C-97G aircraft for all flight operations.

NOTE 7. Unless already accomplished, removal of inflight refueling systems, tanks and support cradles will be accomplished in accordance to USAF T.O. 1C-97(K)E(C)-2-6.

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