## DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

A30SO Revision 2

CONNAIR INTERNATIONAL

USAF KC-97G

July 31, 2015

## TYPE CERTIFICATE DATA SHEET NO. A30SO

Type Certificate Holder Connair International

P.O. Box 131

Dothan, Alabama 36302

I. - Model USAF KC-97G (Boeing) (Restricted Category), approved September 20, 1984

<u>Engines</u> 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

3500 BHP at 2700 RPM adn 147 TPSI (Torque Pressure)

Maximum Dry Power, Sea Level

3250 BHP at 2700 RPM and 230 TPSI (Torque Pressure)

See Airplane Flight Manual T.O. 1C-97G-1 and Appendix T.O. 1C97G-1-1

Part 2 for complete engine power and performance data.

<u>Propellers</u> 4 Hamilton Standard 34G60, Blade No. R-C7021D-8

See T.O. 1C-97G-1 Section V for limitations

<u>Airspeed Limits</u>  $V_N = 302$  knots or Mach 0.62, whichever is less

 $V_A^{N} = 206 \text{ knots IAS Maneuvering}$ 

V<sub>F</sub> = 155 knots IAS for 55% to 100% flaps = 190 knots IAS with flaps to 55%

V<sub>LO</sub> = 200 knots IAS Landing Gear Extension Speed

Maximum Cargo Doors Open and Aerial Delivery Speed

V = 155 knots IAS

C.G. Range Operating 18.5% to 30.5% MAC

<u>Datum</u> 50 in. fwd of nose (Distance from datum to nose jacking cone 228.6 in.)

<u>Leveling Means</u> Indicator below floor in forward lower compartment (Station 356)

<u>Maximum Gross Weight</u> Take Off = 153,000 lbs.

<u>Landing Weight</u> (10 FPS Sink Speed) = 130,000 lbs.

(8.3 FPS Sink Speed) = 264,000 lbs.

(NOTE: Chart for Contact Sinking Speed between 130,000 and 153,000 lbs.

provided in Flight Manual T.O. 1C-97G-1)

<u>Maximum Zero Fuel Weight</u> = 128,000 lbs.

(See Flight Manual for Fuel Loading distribution and limitations)

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Minimum Crew	Pilot, Copilot, and Flight Engineer and the number of persons essential to perform the special purpose operation.				
Fuel Capacity	2 inboa		pard tanks 1,770 gallons each ard tanks 1,520 gallons each er Wing tank 1,210 gallons		
Oil Capacity	186 gallons total -		ne tanks 32.5 g ifer tanks 56 gal	allons each lons	
Cargo Capacity	See Flight Manual T.O. 1C-97G-1 Section V				
			Movement From Neutral Position	Trailing Edge Movement	
Control Surface Movements		Position	in Degrees	in inches	
Ailerons		Up	$25 (\pm 1)$	$9.22 (\pm .38)$	
		Down	$25 (\pm 1)$	9.22 (± .38)	
Aileron Trim Tabs		Up	$5.5 (\pm 1)$	$.78 (\pm .06)$	
		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 (± 2)	2.55 (±.43)	
		Down	15 (± 2)	2.55 (±.43)	
Left - Wing Flaps up, neutral position of trim tab with elevator in neutral position Wing Flaps down 45 degrees, elevator in neutral position measured from position give above		Up	1.5 (+ .5/25)	.32 (+.11/05)	
		Up	$3 (\pm \frac{1}{2})$	. 64 (± .11)	
Rudder - (By pedal with rudder boost on)		Right	22 (± 1)	24.94 (± 1.12)	
,		Left	$22 (\pm 1)$	24.94 (± 1.12)	
- (By trim knob v	with	Right	15.5 (+ 1/-1.5)	17.62 (+1.11/-1.69)	
rudder boost on	)	Left	15.5 (+1/.1.5)	17.62 (+1.11/ 1.60)	
		Leit	15.5 (+1/-1.5)	17.62 (+1.11/-1.69)	
Rudder Tab		Right	20 (± 1)	2.95 (±.15)	
		Left	20 (± 1)	2.95 (± .15)	
Wing Flaps		Down	45 (± 2)		
Serial Numbers Eligible	See Connair International Report No. 97, dated September 17, 1984				
Certification Basis	FAR 21.25(a)(2) dated May, 1974, Amendment 21-1 through 21-53				
Production Basis	None - Prior to original airworthiness certification of each aircraft, an FAA representative must perform inspection for workmanship, materials, adn conformity with the approved technical data, and witness a flight check.				
<u>Equipment</u>	Regulations (See C	ertification I	Basis), must be insta	applicable Airworthiness alled in the aircraft for	

NOTE 1. Current weight and balance report and loading instructions for Model USAF KC-97G aircraft will agree with Section V of T.O. 1C-97G-1 Manual.

included in the airplane.

certification. In addition, Airplane Flight Manual, T.O. 1C-97G-1, must be

- NOTE 2.
- A. This approval applies to USAF (Boeing) KC-97G airplanes with Connair International modification as described in Connair International Report No. 97, dated September 17, 1984.
- B. An additional data plate as described in Connair Report No. 97, page 2, dated September 17, 1984, ill be installed in the airplane adjacent to the existing data plate.
- C. Airplane to be certified for the special purpose of carrying cargo, consisting of minerals, equipment, agriculture, aquatic creatures, animals, perishable goods, and other hardwares from one destination to another. Liquids may be carried in the tanks installed in accordance with Connair International Report No. 97, dated September 17, 1984, adn when the installation is FAA approved.
  - (1) Operation over densely populated areas will be avoided.
  - (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 will be displayed in front of an din clear view of the pilot:

"This airplane must be operated as a restricted category airplane in compliance with FAR 91.39 and the operating limitations stated in the form of placards, markings, and manuals."

- (4) Carriage of hazardous material is prohibited unless compliance is shown with applicable Regulations in Code of Federal Regulations Title 49, Part 175.
- NOTE 3. The aircraft will be serviced and maintained in accordance with USAF T.O. 1C-97(K)E(C)-2-1.
- NOTE 4. On July 29, 2015 a search of all FAA files and records was conducted and no type design records were found.

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