## Type Certificate Bata Sheet

Number: A-93

Issue No.: 3

Approval Date: October 22, 1968

Issue Date: April 21, 1997

This Data Sheet which is part of Type Certificate No. A-93 Issue 3 prescribes the conditions and limitations under which the product(s) for which the Type Certificate was granted meet(s) the standards of airworthiness required by the Canadian Aviation Regulations.

Type Certificate Holder:

Aviation Traders Ltd.

Bld. 105

Bournemouth International Airport Christchurch, Dorset BH23 6NW England Models

Aviation Traders Ltd. ATL.98 Carvair

1. Model ATL.98 Carvair (Transport Category)

Approved October 22, 1968.

A Model ATL.98 Carvair is a Douglas Series C54-DC airplane modified in accordance with the ARB Airworthiness Approval Note No. 6190 by Aviation Traders Ltd.

**Engines** 

4 Pratt & Whitney R-2000-7M2; or,

4 Pratt & Whitney R-2000-9M4; or,

4 Pratt & Whitney Twin Wasp D-5.

Fuel

Specification D. ENG. R.D. 2485 subject to minimum grade being 100/130 octane; maximum lead content 5.50 millilitres TEL per

Imperial gallon.

Oil

Specification D. ENG. R.D. 2472 B/O, Aeroshell W. 100, and Aeroshell

W. 120.

**Engine Limits** 

(I.S.A., Sea Level)

Maximum Take-off:

2700 RPM

Maximum Continuous:

2550 RPM

Propeller and Propeller Limits

4 Hamilton Standard Hydromatic

Hub 23E50-473 or 23E50-505

Blades (3)- 6507-A or 6507-0 or 6507A-0

Pitch Setting: Low 24°

High 93°

Constant Speed Range: 24° to 49°

## Type Certificate Bata Sheet

(Continuation Sheet)

		( CONTINUALL	on Aprileer)				
				Number:	A-93 Issue 3		
Airspeed Limits	V <sub>NE</sub>	(Never Excee	d)	218 KTS			
(IAS)		(Normal Ope	•	185 KTS			
(/		Design Mand	-				
		72,900 lbs.	0.	162 KTS			
	ļ	58,000 lbs.		147 KTS			
		51,200 lbs or l		138 KTS			
		(Flaps Down)					
	]	Flap Setting:	20°	176 KTS			
page at a standard contract to the contract of	many restaurantespie de tr		30°	137 KTS			
			40°	134 KTS			
	••	<i></i>	or more	484 7000			
		(Landing Gea		156 KTS			
	,	(Minimum Co	•				
		with the critic	_				
		inoperative, p windmilling i	-	82 KTS			
	`	which mining i	n low placity	02 K13			
Maximum Weight	Take off	72,900 1	bs				
(Sea Level)	Landing						
(Caraca )	Zero Fue		bs				
C.G. Limits	Weight	the second of th	Fwd. L	imit	Aft Limit		
C.O. DM12	(lb.)		(Sta.		(Sta.)		
	up to 64,	500	- 374.8	_	402.6		
	72,900		380.7		401.2		
	en points.						
Datum	erence station z	ero which is					
		The datum is defined as fuselage reference station zero which is situated 107 inches aft of the tip of the fuselage nose.					
			•	Ü			
Levelling Means	Levelling lugs are installed in the nose landing gear wheel well and						
	_	•	•		ween stations 640		
			• •	are rivets circle			
	located of	n the left han	d side of the fi	uselage at statio	ns 134 and 853.		
Maan Aaradamamic	163.6 incl	has Laading	adre of the Mi	AC is located 35	5.2 inches aft of the	ha	
Mean Aerodynamic Chord	C.G. dati	_	eage of the MD	AC is located 55	J.Z Hiches alt of u	ie	
Cilora	J. J. 4411						
Minimum Crew	2: pilot &	2: pilot & co-pilot					
Maximum Occupants	86.						



## Type Certificate Bata Sheet

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Required Equipment	The basic required equipment as prescribed in the applicable airworthiness Requirements must be installed in the airplane for certification.		
	In addition the following items of equipment are required:		
	a) ARB approved Flight Manual Document Number AT.1.1 including all approved amendments.		
NOTE 1	Current Weight and Balance Report, including a list of the equipment included in the certificated empty weight, and loading instructions must be provided for each aircraft at the time of original certification.		
NOTE 2	All placards required in the approved Flight Manual must be installed in the appropriate locations.		
NOTE 3	The aircraft must be operated in accordance with the ARB approved Flight Manual.		
NOTE 4	The maximum number of occupants is limited by the type and number		

- END -

of exits. Each passenger configuration must be approved.

 K. Mansfleld
Director, Aircraft Certification for Minister of Transport