

**CTA No A-7
Revision 10**

**Airtourer 150
Airtourer Super 150
Airtourer T3A**

**Airtourer Cooperative Ltd
11 December 2009**

TYPE CERTIFICATE DATA SHEET No A-7

This data sheet, which is part of Type Certificate No A-7, prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the Airworthiness requirements of the New Zealand Civil Aviation Rules.

Type Certificate Holder: **Airtourer Cooperative Ltd**
7/2 Harbourview Crescent
Abbotsford Cove 2046 NSW
AUSTRALIA

I - **Model Airtourer 150. Approved 10 June 1969**

Engine: Lycoming O-320-E2A or E3D

Fuel: 80/87 minimum grade aviation fuel.

Engine Limits: Take off and continuous : 2700 RPM (Maximum)
Diving (at any throttle setting): 2700 RPM (Maximum)

Propeller: Type: Sensenich 74DM6S5-1.5-60
Pitch: 60 in.
Diameter: 72.5"

Airspeed Limits (CAS):

	Knots
Never Exceed Speed Vne:	185
Maximum Structural Cruise Vc:	127
Maximum Manoeuvring Speed Vp:	110 at 1750 lb 129 at 1650 lb
Maximum Flap Extended Speed Vf:	100

C.G. Range: Forward Limit:
79.2 in. aft of datum at 1400 lb. or less
81.5 in. aft of datum at 1750 lb.
(Linear variation between these points).

Aft limit:
86.0 in. aft of datum at all weights.

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Maximum Weight: Normal Flight 1750 lb
Aerobatic Flight 1650 lb

Oil Capacity: 1.67 Imp. Gall. (+29.0").

Serial No.s Eligible: A522, A523, A527, A545, A554.

Flight Manual: CAA Approved Airtourer 150 Flight Manual AIR 2790 dated August 2002, at latest CAA approved revision.

Maintenance & Repair Manual: Model AT150 and Super 150: May 1969.

Drawing List: Aero Engine Services Ltd., Airtourer 100,115 and 150 Drawing List 10 June 1969, amended by Amendment List Serial No AL-1 issued 19.11.69.

II - **Model Airtourer Super 150. Approved 10 June 1969.**

Engine: Lycoming O-320-E1A.

Fuel: 80/87 minimum grade aviation fuel.

Engine Limits: Take off and continuous : 2700 RPM (Maximum)
Diving (at any throttle setting): 2700 RPM (Maximum)

Propeller: Type: Hartzell HC-C2YL-1B/7663-3.5
Pitch: 12° 12' - 35°
Diameter: 72.5"

Airspeed Limits (CAS):		Knots
	Never Exceed Speed Vne:	203
	Maximum Structural Cruise Vc:	127
	Maximum Manoeuvring Speed Vp:	110 at 1750 lb 129 at 1650 lb
	Maximum Flap Extended Speed Vf:	100

C.G. Range: Forward Limit:
79.2 in. aft of datum at 1400 lb. or less
81.5 in. aft of datum at 1750 lb.
(Linear variation between these points).

Aft limit:
86.0" aft of datum at all weights.

Empty C.G. Range: None.

Maximum Weight: Normal Flight 1750 lb
Aerobatic Flight 1650 lb

Oil Capacity: 1.67 Imp. Gall. (+29.0")

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Serial No.s Eligible: 526, A519, A532, A534 – A540, A543 – A544, A548 – A551, A555.

Flight Manual: CAA Approved Airtourer Super 150 Flight Manual AIR 2791 dated August 2002, at latest CAA approved revision.

Maintenance & Repair Manual: Model AT 150 and Super 150: May 1969.

Drawing List: Aero Engine Services Ltd., Airtourer 100,115 and 150 Drawing List 10 June 1969, amended by Amendment List Serial No AL-1 issued 19.11.69.

III - Model Airtourer T3A. Approved 29 January 1973.

Engine: Rolls Royce 0-240-A

Fuel: 100/130 minimum grade aviation fuel.

Engine Limits: Take-off and continuous : 2800 RPM (Maximum)
Diving (at any throttle setting): 2800 RPM (Maximum)

Propeller: Type McCauley 1A-135/RM7153
Pitch 53 in.
Diameter 71.0"

Airspeed Limits (IAS):

	Knots
Never Exceed Speed Vne:	175
Maximum Structural Cruise Vc:	122
Maximum Manoeuvring Speed Vp:	107 at 1650 lb 122 at 1550 lb
Maximum Flap Extended Speed Vf:	100

C.G. Range: Forward Limit:
79.2 in. aft of datum at 1330 lb or less
82.8 in. aft of datum at 1650 lb.
(Linear variation between these points).

Aft Limit:
Normal Flight: 86.35 in. aft of datum at all weights.
Aerobatic Flight: 84.90 in. aft of datum at all weights.

Maximum Weight: Normal Flight: 1650 lb
Aerobatic Flight: 1550 lb

Oil Capacity: 5 Imp. Quarts.

Serial No.s Eligible: C60, C87, C126, C155, C576.

Flight Manual: CAA Approved Airtourer T3A Flight Manual AIR 2789 dated August 2002, at latest CAA approved revision.

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Maintenance & Repair Manual: Model AT 100, 115, 150 and Super 150 : May 1969 amended to Amendment No. AL5 to include T3A.

Drawing List: Aero Engine Services Ltd, Airtourer 100, 115 and 150 Drawing List 10 June 1969, amended by Amendment List Serial No. AL-4 issued 13.4.72.

DATA APPLICABLE TO ALL MODELS

Datum: 50 in. forward of front face of engine bulkhead.

Levelling Means: Fore and aft and lateral, canopy sills immediately behind windscreen.

Number of Seats: 2 (+90.5").

Maximum baggage: 100 lb. (+111").
Baggage is not permitted when performing aerobatics.

Fuel Capacity: 29.0 Imp. Gall. (28.7 Imp. Gall. usable)(+98.0").

Other Operating Limitations: Aircraft shall be operated in compliance with the operating limitations specified in the approved Flight Manual.

Control Surface Movements:

Elevator	22° up	15° down
Rudder	18° left	23° right
Aileron:	Up: Flap up 8°20' ; Flap full down 5°50'	Down: Flap up 3°40' ; Flap full down 11°40'
Flapperons:	Up: Flap up 7°30' ; Flap full down 7°30'	Down: Flap up 4°20' ; Flap full down 19°
Centre Flap:	1st: 4° ; 2nd: 14° ; 3rd: 24° ; 4th: 34°	

Certification Basis: New Zealand Civil Aviation Regulations 1953 as amended by Amendments Nos. 1-11 inclusive. Commonwealth of Australia Department of Civil Aviation Air Navigation Orders Part 101-1 Current at March 1967.

Weight and Balance: Current weight and balance report (including a list of equipment included in empty weight and loading instructions), must be provided for each aircraft in the Approved Flight Manual at the time of original certification.

Placards: Placards to be displayed in accordance with the NZ CAA Approved Flight Manual.

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