



A-13
Revision 2
Micro Aviation (NZ) Ltd
BANTAM B22S
BANTAM B22J
5 May 2006

TYPE CERTIFICATE DATA SHEET No A-13

This data sheet, which is part of Certificate of Type Approval No A-13, prescribes the 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 : **Micro Aviation (NZ) Limited**
Limmer Road, Te Kowhai
R.D.8, Hamilton, New Zealand

I - Model BANTAM B22S (Restricted Category) Approved December 19, 1995

Engine: Bombardier Rotax 582LC

Fuel: AVGAS 83 MON or MOGAS 90 RON min. octane rating

Oil: Super Two Stroke oil. (ASTM/CEC Standard TSC3 or equivalent) - Fuel/Oil Ratio 50:1

Engine Limits:

For all operations	6800 RPM	(65 hp)
Max. continuous	6500 RPM	(60 hp)

Propeller: Brolga Model 68L, composite, 3-blade
16° pitch blocks, 68 in. diameter

Propeller Limits: Maximum Static RPM (Full Throttle) 2167 RPM

Airspeed Limits (CAS):

Never Exceed	84 kt (97 mph)
Manoeuvring	68 kt (78 mph)
Design Cruising	66 kt (76 mph)
Flaps Extended	53 kt (61 mph)

C.G. Range:

Fwd Limit	0.922m (36.3 in) AOD	} At Max Wt.
Aft Limit	0.991m (39.0 in) AOD	}

Empty Weight C.G. Range: None

Datum: Front face of fuselage keel

Levelling Means: Top surface of fuselage keel aft of wing

Maximum Weight: 377.3 kg (832 lb.)

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<u>Number of Seats:</u>	2 (2 at +35.55 in)																								
<u>Maximum Baggage:</u>	Nil																								
<u>Fuel Capacity:</u>	45.0 litres (10.0 imp. gal.) usable																								
<u>Control Surface Movements:</u>	<table> <tr> <td>Wing Flaps</td> <td>(±1°)</td> <td>Up</td> <td>0°</td> <td>Down</td> <td>15°</td> </tr> <tr> <td>Ailerons</td> <td>(±1°)</td> <td>Up</td> <td>25°</td> <td>Down</td> <td>25°</td> </tr> <tr> <td>Rudder</td> <td>(±1°)</td> <td>Left</td> <td>25°</td> <td>Right</td> <td>25°</td> </tr> <tr> <td>Elevator</td> <td>(±1°)</td> <td>Up</td> <td>30°</td> <td>Down</td> <td>13°</td> </tr> </table>	Wing Flaps	(±1°)	Up	0°	Down	15°	Ailerons	(±1°)	Up	25°	Down	25°	Rudder	(±1°)	Left	25°	Right	25°	Elevator	(±1°)	Up	30°	Down	13°
Wing Flaps	(±1°)	Up	0°	Down	15°																				
Ailerons	(±1°)	Up	25°	Down	25°																				
Rudder	(±1°)	Left	25°	Right	25°																				
Elevator	(±1°)	Up	30°	Down	13°																				
<u>Serial Numbers Eligible:</u>	97-011 and up, and any earlier aircraft which have had Modification B22S-03 embodied. (See Note 5)																								
<u>Flight Manual:</u>	CAA Approved Flight Manual AIR 2546																								
<u>Drawing List:</u>	MA Drawing No. B22S-001																								
<u>Date of Application:</u>	22 October 1991																								
<u>Certification Basis:</u>	<p>Australian Civil Aviation Order 101.55 Issue 1 dated 7 January 1988 including amendments up to and including Amendment 96 dated 25 September 1991.</p> <p>BCAR Section S (Advance copy dated March 1983 and as amended on 11th October 1988.)</p>																								
<u>Production Basis:</u>	Aircraft Manufacturing Organisation Certificate No.AM12641 dated 31 May 1996, or latter CAA issue, granted pursuant to Civil Aviation Rule Part 148.																								
<u>Equipment:</u>	<p>The basic required equipment as prescribed in the applicable airworthiness regulations (see certification basis) must be installed in the aircraft for certification.</p> <p>The applicable CAA approved Flight Manual is required for all operations. Included within the Flight Manual is information in the form of supplements which cover installation of optional systems and equipment that are necessary for safe operation of the aircraft.</p>																								

II - Model BANTAM B22J (Restricted Category) Approved May 5, 2006

<u>Engine:</u>	Jabiru 2200A
<u>Fuel:</u>	AVGAS 100LL or 100/130LL or MOGAS 95 RON min. octane rating
<u>Oil:</u>	See Flight Manual
<u>Engine Limits:</u>	For all operations 3300 RPM
<u>Propeller:</u>	Jabiru 2200, wooden, 2-blade 38 in pitch, 60 in. diameter

<u>Propeller Limits:</u>	Maximum Static RPM (Full Throttle) 3300 RPM
<u>Airspeed Limits (CAS):</u>	Never Exceed 84 kt (97 mph) Manoeuvring 68 kt (78 mph) Design Cruising 66 kt (76 mph) Flaps Extended 49 kt (56 mph)
<u>C.G. Range:</u>	Fwd Limit 0.541 m (21.30 in) AOD } At Max Wt. Aft Limit 0.603 m (23.75 in) AOD }
<u>Empty Weight C.G. Range:</u>	None
<u>Datum:</u>	Wing Leading Edge
<u>Levelling Means:</u>	Top surface of fuselage keel aft of wing
<u>Maximum Weight:</u>	430 kg (948 lb.)
<u>Number of Seats:</u>	2 (2 at +20.30 in)
<u>Maximum Baggage:</u>	Nil
<u>Fuel Capacity:</u>	50.0 litres (11.0 imp. gal.) usable
<u>Control Surface Movements:</u>	Wing Flaps ($\pm 1^\circ$) Up 0° Down 07° Ailerons ($\pm 1^\circ$) Up 25° Down 25° Rudder ($\pm 1^\circ$) Left 25° Right 25° Elevator ($\pm 1^\circ$) Up 30° Down 13°
<u>Serial Numbers Eligible:</u>	04-257 and up. (See Note 5)
<u>Flight Manual:</u>	CAA Approved Flight Manual AIR 2940
<u>Drawing List:</u>	MA Drawing No. B22J-A001
<u>Date of Application:</u>	10 January 2005
<u>Certification Basis:</u>	BCAR Section S Issue 2 dated 31 August 1999
<u>Production Basis:</u>	Manufacturing Organisation Certificate No.AM12641 dated 31 January 2005, or latter CAA issue, granted pursuant to Civil Aviation Rule Part 148.
<u>Equipment:</u>	The basic required equipment as prescribed in the applicable airworthiness regulations (see certification basis) must be installed in the aircraft for certification.

The applicable CAA approved Flight Manual is required for all operations. Included within the Flight Manual is information in the form of supplements which cover installation of optional systems and equipment that are necessary for safe operation of the aircraft.

DATA PERTINENT TO ALL AIRCRAFT

- NOTE 1 Current weight and balance report, including list of equipment included in certified empty weight, must be provided for each aircraft at the time of original airworthiness certification and at all times thereafter. Loading instructions are included in the applicable CAA approved Flight Manual.
- NOTE 2 (a) Placards and instrument markings must be displayed in accordance with the applicable CAA approved Flight Manual including relevant supplements.
- (b) The following placard must be displayed in clear view of the pilot:
“Approved for Private Operations by Day VFR Only. All Aerobatic Manoeuvres and Spinning Prohibited”
- NOTE 3 The airworthiness certificate must be annotated with the following statement:
“This aircraft does not meet the airworthiness requirements of ICAO, as prescribed by Annex 8 of the Convention on International Civil Aviation.”
- NOTE 4 For UK certification an Export Airworthiness Certificate certifying conformity to the type design approved under Type Certificate No. A-13 must have been issued by the Civil Aviation Authority of New Zealand. (See AAN 25649 at the latest issue)
- NOTE 5 Note serial numbers have been issued consecutively by the factory from 001, prefixed by the year of manufacture, up to number 031. At that point the serial number jumped to 185, which is the total number of all models produced by the company.

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