

CIVIL AVIATION AUTHORITY – SAFETY REGULATION GROUP



MICROLIGHT TYPE APPROVAL DATA SHEET (TADS)

NO: BM 78 ISSUE: 1

- TYPE: Bantam B22J
- (1) MANUFACTURER: Micro Aviation (NZ) Ltd
Te Kowhai, Limmer Road, RD8,
Hamilton, New Zealand
- (2) UK IMPORTER: G. Lampitt, Micro Aviation UK & Ireland
- (3) CERTIFICATION: BCAR Section S Issue 2 dated 31 August 1999
- (4) DEFINITION OF BASIC STANDARD: NZCAA TCDS A-13 Revision 2 dated 5 May 2006
MA Drawing No. B22J-A001
- (5) COMPLIANCE WITH THE MICROLIGHT DEFINITION
- | | |
|--|------------------------|
| (a) MTOW | 430 kg |
| (b) No. Seats | 2 |
| (c) Maximum Wing Loading | 28.5 kg/m ² |
| (d) V _{so} | 34 KIAS |
| (e) Permitted range of pilot weights | 74-90 kg |
| (f) Typical Empty Weight (ZFW) | 216 kg |
| (g) ZFW + 172 kg crew + 1 hr fuel
(16 litres / 11 kg) | 399 kg |
| (h) ZFW + 86 kg pilot + full fuel
(50 litres / 35 kg) | 337 kg |
| (i) Max ZFW | 247 kg |

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(6) POWER PLANTS

Designation	<i>Jabiru 2200A</i>			
Engine Type	<i>4 cylinder/4-stroke</i>			
Reduction Gear	<i>Direct Drive</i>			
Exhaust System	<i>Jabiru</i>			
Intake System	<i>Jabiru</i>			
Propeller Type	<i>Jabiru</i>			
Propeller Dia x Pitch	<i>38" x 60"</i>			
Noise Type Cert No.	TBD			
AAN approving configuration	29250			

(7) MANDATORY LIMITATIONS:

- (A) Max Take-Off Weight 430 kg
- (B) CG Limits
 Fwd Limit 0.541 m (21.30 in) AOD
 Aft Limit 0.603 m (23.75 in) AOD
- (C) CG datum
 Wing Leading Edge
- (D) Cockpit Loadings
- | | Port | Starboard | Total |
|-----|---------|-----------|--------------|
| Min | Either | Either | 74 kg (solo) |
| Max | 90.5 kg | 90.5 kg | 181 kg |
- (E) Never Exceed Speed 84 kt (97 mph)
- (F) Manoeuvring Speed 68 kt (78 mph)
- (G) Permitted Manoeuvres
- Any manoeuvre necessary for normal flying
 - Stalls
 - Steep turns with an angle of bank that does not exceed 60°
- (H) Fuel Contents (Max Useable) 50.0 litres (11.0 imp. gal.) usable

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(I) Power Plant See Table

Engine				
Max RPM	3300 RPM			
MAX CHT	392°F			
MAX EGT	N/A			
Fuel Spec	AVGAS 100LL or 100/130LL or MOGAS 95 RON min. octane rating.			
Engine Oil Spec	See Flight Manual			
Gearbox oil spec	N/A			
Fuel/Oil Mix	N/A			
Coolant Temperature	N/A			
Oil Pressure	N/A			
Oil Temperature	Max 118°C			
Fuel Pressure	N/A			

(8) INSTRUMENTS REQUIRED:

ASI	Altimeter	RPM	CHT / EGT	Compass	Coolant temp	Fuel Pressure	VSI	Slip ball
Standard	Standard	Standard	CHT Standard	Standard	N/A	N/A	Optional	Standard

(9) CONTROL DEFLECTIONS: (trikes)

Wing Flaps	(±1°)	Up 0°	Down 07°
Ailerons	(±1°)	Up 25°	Down 25°
Rudder	(±1°)	Left 25°	Right 25°
Elevator	(±1°)	Up 30°	Down 13°

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(10) PILOT'S NOTES, MAINTENANCE MANUALS REFERENCES:

10.1 Manuals approved for use with this aircraft.

Bantam B22J Flight Manual – NZCAA Approved as AIR 2940

10.2 The following placards are to be fitted:-

(a) Flight Limitations Placard (to be visible to pilot)

AIRSPD LIMITATIONS	
MANOEUVRING SPEED (V_A)	67 KIAS
NEVER EXCEED SPEED (V_{NE})	80 KIAS
MAXIMUM SPEED FLAPS EXTENDED (V_F)	48 KIAS

(b) Engine Limitations Placard (to be located near to engine instruments)

Limitations marked on engine instruments

(c) Fuel Limitations Placard (to be located near to filler cap)

The fuel tank is placarded close to the filler cap with:

1. Minimum fuel grade Super Grade (95 RON) Mogas
2. Useable Fuel Capacity 50 litres

(d) Switches

The following are labelled on the item itself:

1. Throttle
2. Flap
3. Fuel Cock
4. Choke
5. Trim switch

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(11) MANDATORY MODIFICATIONS / SERVICE BULLETINS / AIRWORTHINESS DIRECTIVES ETC:

a) Required modifications: Nil

b) Service Bulletins: Nil

Bulletin No	Title	Notes	Date
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c) Airworthiness Directives:

Applicable directives according to the CAA-NZ are to be embodied in addition to CAA MPDs. A list of these is located at:

http://www.caa.govt.nz/Airworthiness_Directives/Microlight/MICRO.pdf

and at initial issue date these included:

DCA/MICRO/1 Wing Leading Edge Fabric – Inspection and Modification

Applicability: Micro Aviation (NZ) Ltd model B20, B22 and B22S Bantam microlight aircraft with wings covered in dacron fabric.

This is promulgated in CAA (UK) MPD 1999-006 R1

DCA/MICRO/3 Flaperon Control System - Inspection and Modification

Applicability: Micro Aviation (NZ) Ltd Bantam microlight aircraft model B22 S/N 145 and 146, and model B22S up to S/N 99-018.

This is promulgated in CAA (UK) MPD 1999-010

(12) MINIMUM PERFORMANCE AT MAX TAKE-OFF WEIGHT

Typical rate of climb at SL at max power: 490 ft/min @ 43 KIAS

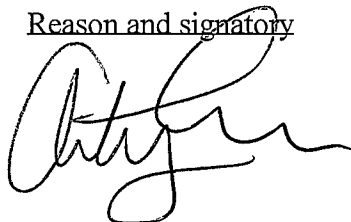
Takeoff Distance to clear a 50 ft obstacle 208 m (682 ft)

Landing Distance over a 50 ft obstacle 246 m (807 ft)

Typical Cruising Speed at 2600 RPM: 60 KIAS

Stall or Minimum Flying Speed: 34 KIAS power off with full flaps

Issue History

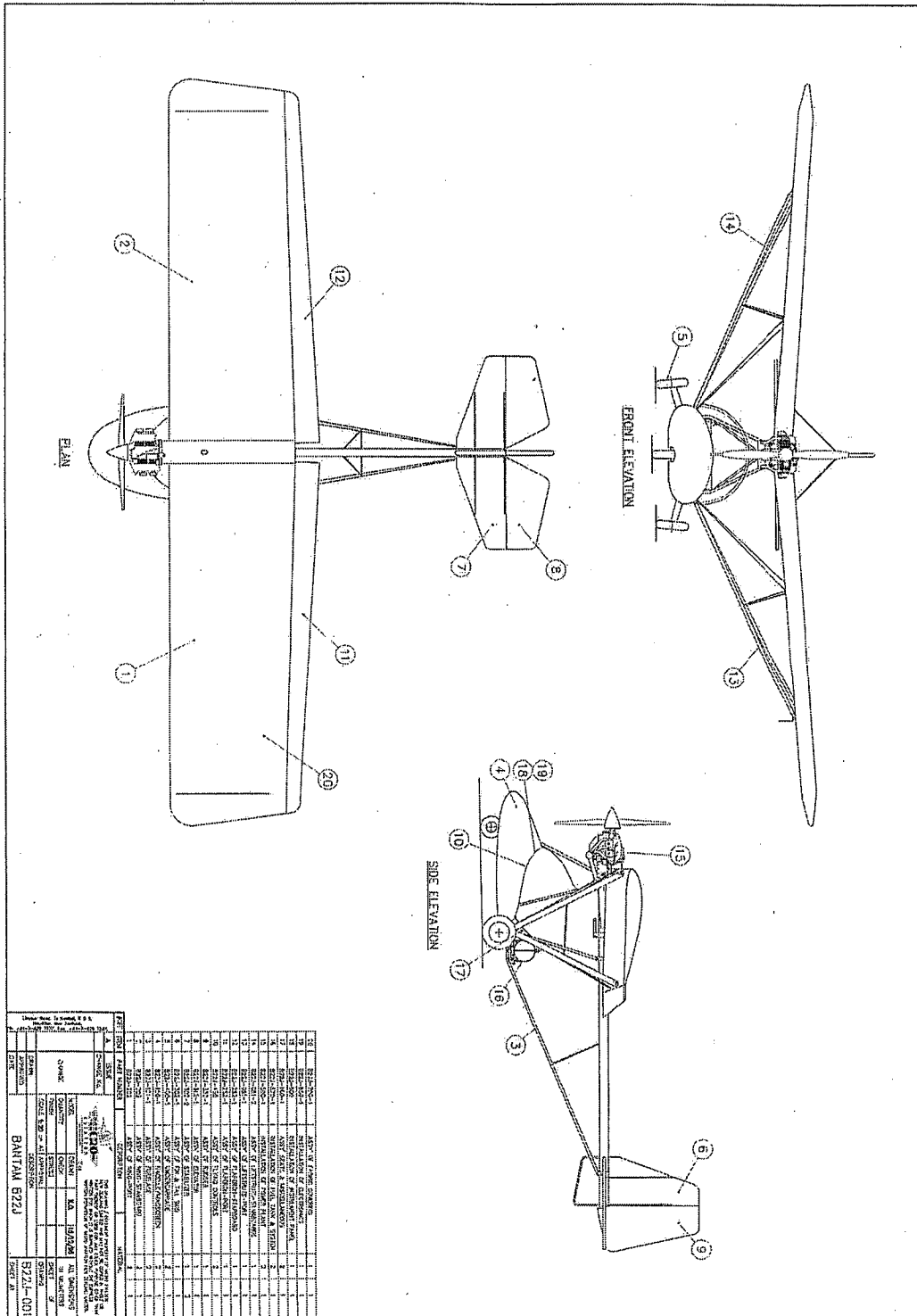
<u>Issue No.</u>			<u>Reason and signatory</u>
1	26/09/08	Initial issue A C LOVE	

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Illustration of Aircraft - 3 View – Bantam B22J



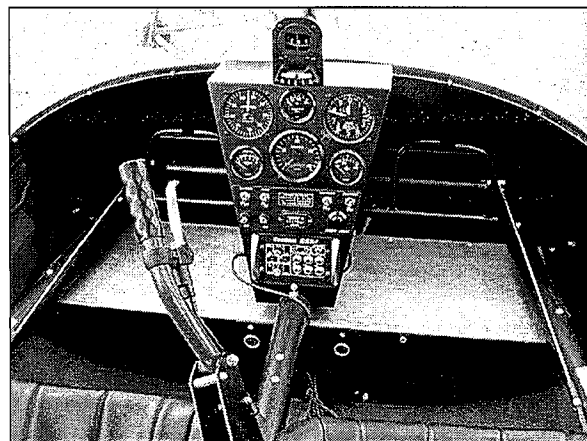
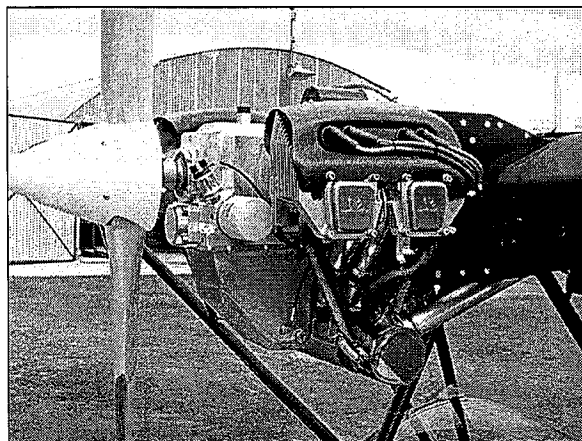
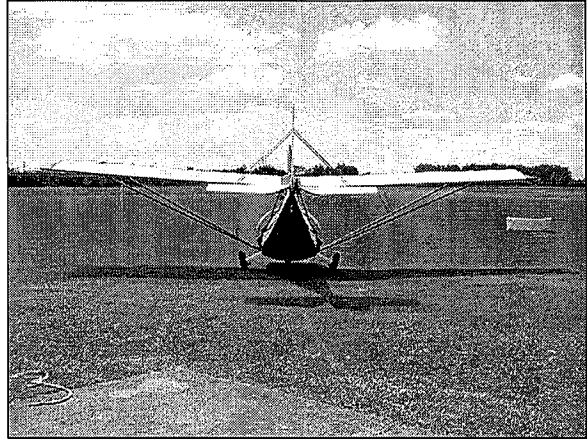
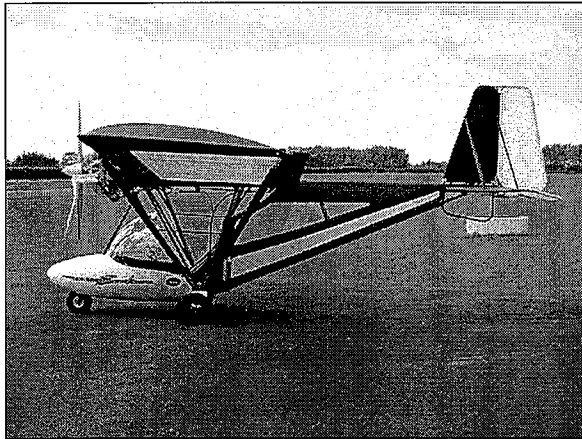
DRAWING INFORMATION		REVISIONS	
NO.	DESCRIPTION	NO.	DESCRIPTION
1	ISSUED FOR APPROVAL	1	ISSUED FOR APPROVAL
2	ISSUED FOR APPROVAL	2	ISSUED FOR APPROVAL
3	ISSUED FOR APPROVAL	3	ISSUED FOR APPROVAL
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Illustration of Aircraft - Photos – Bantam B22J



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ANNEX A – MANDATORY MODIFICATIONS

Mod ref.	Description	Notes	Issued

ANNEX B - APPROVED OPTIONAL MODIFICATIONS

The installation of all optional modifications is to be inspected by a BMAA inspector and an entry made in the appropriate logbook(s). Note that other approved modifications may exist which are not listed here.

Mod ref.	Description	Notes	Issued

ANNEX C - WEIGHING INFORMATION

Item	Weight (lb)	Arm (ins)	Moment (lb ins)
Basic Empty Weight	476	22.80	10853
Fuel	79	36.80	2907
Pilot	170	20.30	3451
Passenger	170	20.30	3451
Take-off weight	895	23.04	20662