

BRITISH MICROLIGHT AIRCRAFT ASSOCIATION (BMAA)

MICROLIGHT TYPE APPROVAL DATA SHEET (TADS)

NO: BM-106 ISSUE: 1



Issued on behalf of the UK CAA by the BMAA, UK CAA organisation approval ref. DAI/8909/84

TYPE:

Bobcat 600

- | | | |
|-----|--|---|
| (1) | MANUFACTURER: | The Light Aircraft Company Limited - DAI/9957/14
Hangar 4, Little Snoring Airfield, Fakenham, NR21 0JL |
| (2) | UK IMPORTER: | N/A |
| (3) | CERTIFICATION: | BCAR Section S Issue 8 |
| (4) | DEFINITION OF BASIC STANDARD: | Bobcat 600
Bobcat MDL (Master Drawing List) 17/7/2025 |
| (5) | COMPLIANCE WITH THE MICROLIGHT DEFINITION | |
| (a) | MTOW | 600 kg |
| (b) | No. Seats | 2 |
| (c) | Maximum Wing Loading | 45.31 kg/m ² |
| (d) | V _{so} | 48 mph CAS |
| (e) | Permitted range of pilot weights | 0-110 kg (each)
(min cockpit load 55kg) |
| (f) | Typical Empty Weight (ZFW) | 300 kg |
| (g) | ZFW + 200 kg crew + 1 hr fuel | 518 kg |
| (h) | ZFW + 100 kg pilot + full fuel
(100 litres / 72 kg) | 472 kg |
| (i) | Max ZFW at initial permit issue | 382 kg |

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(6) POWER PLANTS

Designation	Bobcat 600	Bobcat 600
Engine Type	Rotax 912 ULS	Rotax 912 ULS
Reduction Gear	2.43:1	2.43:1
Exhaust System	TLAC Exhaust	TLAC Exhaust
Intake System	K&N Filter	K&N Filter
Propeller Type	E-Props DUR-3-175-C4-T 3 blade	Helix H50F 3 blade
Propeller Dia x Pitch	1750mm x 25.5 deg Using E-Props pitch tool	1750mm R-LTM-17-3
Maximum static rpm	5500 rpm	5500 rpm
Noise Type Cert No.	N/A	N/A
AAN approving configuration	AAN BMAA-1142	AAN BMAA-1142

(7) MANDATORY LIMITATIONS:

- | | | |
|-----|------------------------------|--|
| (a) | Max Take-Off Weight | 600 kg |
| (b) | CG Limits | Aft limit 1223 mm aft of datum
FWD Limit 1080 mm aft of datum |
| (c) | CG datum | Nose Wheel Centre |
| (d) | Cockpit Loadings | Total
Min (occupant only) 55 kg
Max (occupants only) 110 kg Each
Max Cockpit Load 220kg |
| (e) | Never Exceed Speed, V_{NE} | 120 mph IAS |
| (f) | Manoeuvring Speed, V_A | 102 mph IAS |
| (g) | Flap Limiting Speed V_{FE} | 82 mph IAS |
| (g) | Permitted Manoeuvres | Maximum bank angle 60°
Non Aerobatic
Normal acceleration limits, +4g / -2g |
| (h) | Fuel Contents (Max Usable) | 101 litres 100 litres (Max Usable) |

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(I) Power Plant See Table

Engine	Rotax 912 ULS
Max RPM	5800 (5 min)
Max Continuous RPM	5500 (continuous)
MAX Coolant	120°C
MAX EGT	880°C
Fuel Spec	95 RON minimum unleaded to EN 228 Normal, Super or Super Plus, AVGAS 100LL, UL91. (Unleaded preferred – see engine manual)
Engine Oil Spec	RON 424, SAE 10 W-40 (See engine manual)
Oil Pressure	Normal 2-5 bar above 3500rpm Min 0.8 bar below 3500rpm Max 7 bar
Oil Temperature	50°C -130°C
Fuel Pressure	0.15 - 0.5bar with fuel pump S/N 11.0036 or later

(8) INSTRUMENTS REQUIRED:

ASI	Altimeter	RPM	Coolant Temp	Oil temp	Oil Pressure	Slip Ball
0 to 126 mph (min)	Required	0-6000 rpm min	Required	Required	Required	Required

Cockpit Electronic CO detector is Mandatory.

A voltmeter, compass and fuel pressure gauge are recommended.



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(9) CONTROL DEFLECTIONS

Ailerons UP	24° ± 2°	Rudder Left	30° ± 2°
Ailerons Down	12° ± 2°	Rudder Right	30° ± 2°
Flap Stage 1	5° ± 1°	Trim Up	3° ± 2°
Flap Stage 2	12° ± 1°	Trim Down	22° ± 2°
Elevator Up	32° ± 2°		
Elevator Down	17° ± 2°		

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

10.1 Manuals approved for use with this aircraft.

- (a) Pilot's Operating Handbook: Bobcat 600 Pilot Operating Handbook
6 Sept 2024 or later issues.
- (b) Maintenance Manual: Bobcat 600 Maintenance Manual
9 June 2025 or later issues.

Engine, propeller, parachute system (if fitted) and other fitted equipment manufacturer's Operating and Maintenance Manuals as appropriate to fitted powerplant and equipment, at their current issues.

10.2 The following placards are to be fitted:

- (a) Flight Limitations Placard (to be visible to pilot)
Contains airspeed, manoeuvring and loading limitations. See Operator's Manual.
- (b) Engine Limitations Placard (to be located near to engine instruments)
A placard showing the limitations for all indicated engine parameters is to be mounted close to the engine instruments. Also, main limitations are to be shown as coloured markers (red for danger, amber for caution) on the instrument displays. See Operator's Manual.
- (c) Occupant Warning Placard (to be visible to both occupants)
See Operator's Manual.
- (d) Fuel Filler Placard (to be located adjacent to the fuel filler cap)
A placard is to be fitted showing fuel capacity and fuel types. See Operator's Manual.
- (e) Fuel Load Vs Cockpit Load (to be visible to both occupants)
If MTOW can be exceeded with full fuel and 200kg cockpit weight, the fuel loads at MTOW for cockpit weights of 200kg, 190kg, 180kg etc. at 10kg intervals down to the maximum fuel load. See Operator's Manual.
- (f) Parachute Warning Placards (to be located on the exterior of the aircraft)



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If an Airframe Mounted Total Recovery Parachute System (AMTRPS) is fitted, placards complying with BCAR Section S Issue 8 must be fitted. See Operator's Manual.

- (g) Secondary Control Markings
Choke, cabin heat, trim, flaps, fuel shut-off: see Operator's Manual. Other secondary controls are to be placarded as per the associated Operator's Manual or normal aviation practice (if not detailed in associated Operator's Manual).
- (h) ASI Markings
See Operator's Manual.
- (i) Switches
All switches are to be marked with function and sense (up=on, down=off).
- (j) Fuses and Circuit Breakers
All fuses and circuit breakers are to be marked with function and rating.
- (k) Fireproof Metal Plate
Showing the aircraft nationality and registration marks (e.g. G-ABCD) to be mounted in a prominent position on the engine side firewall.

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

See Annex A for required modifications.

(12) MINIMUM PERFORMANCE AT MAX TAKE-OFF WEIGHT

Rate of Climb: 720 fpm at 66 mph **IAS**. Rotax 912 ULS

Stall or Minimum Flying Speed: 46 mph **IAS** at MTOW / idle / full flap.

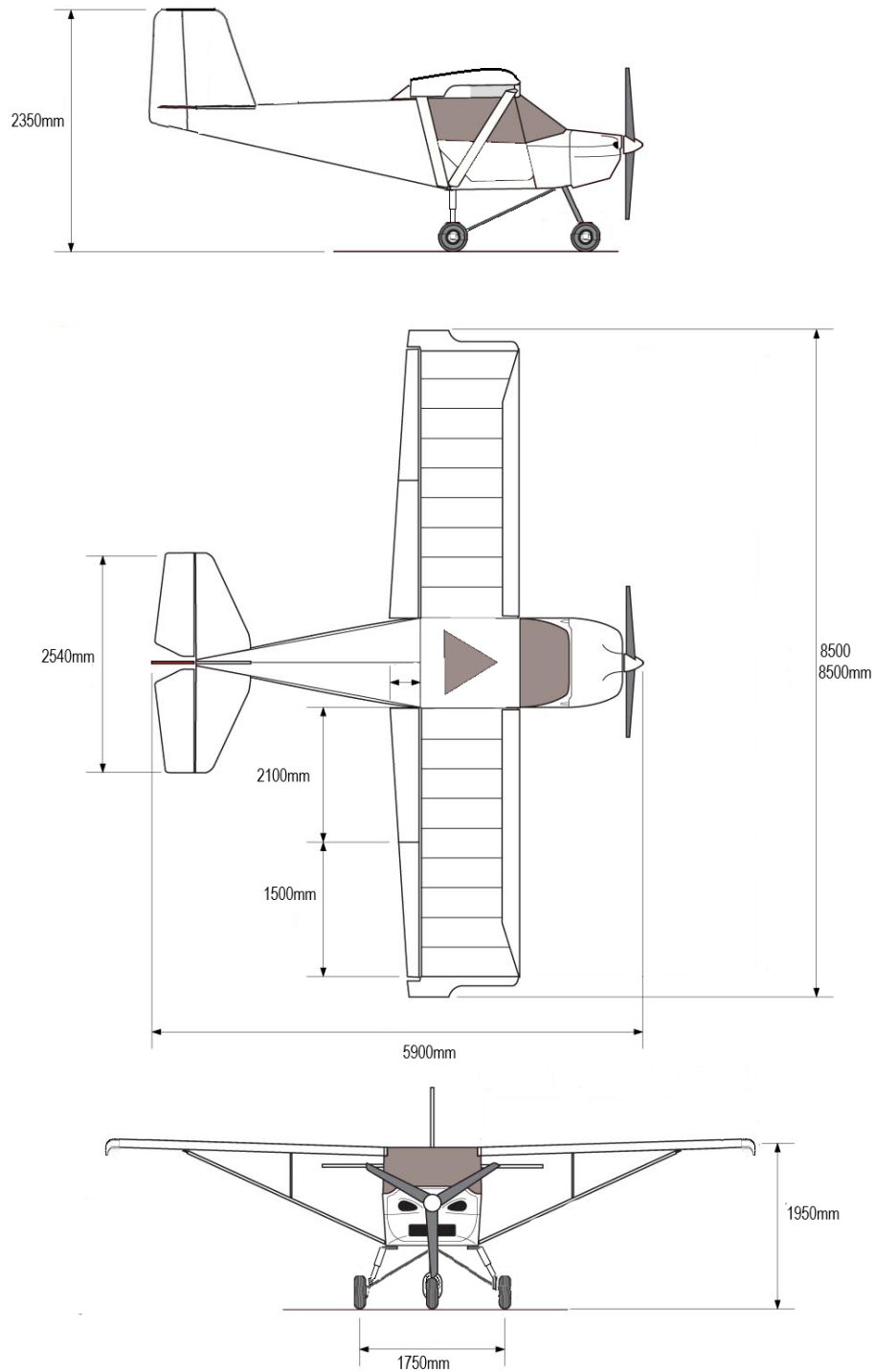
Issue History

<u>Issue</u>	<u>Date</u>	<u>Reason and Signatory</u>
1	18 September 2025	Initial issue. Approved for issue by R. Pattrick BMAA Senior Design Approval Engineer

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Illustration of Aircraft - 3 View



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Illustration of Aircraft – Photograph





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ANNEX A – MANDATORY MODIFICATIONS/SERVICE BULLETINS/AIRWORTHINESS DIRECTIVES ETC.

Mandatory Options

For Latest Bulletins

ANNEX B - APPROVED OPTIONAL MODIFICATIONS

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

Modification No. Description:

1	Control column Y grip for training
2	Map pockets
3	Radio and/or Transponder (CAA/EASA Approved Type)
4	Baggage Container
5	Wheel Spats and Mud Spades
6	Nav/Position lights on wing tips
7	Landing light
8	Strobe/position light on fin



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ANNEX C - WEIGHING INFORMATION

1. CG Datum:	Nose wheel axle centre
2. Weighing attitude:	Wing underside at wing root level
3. Main wheel moment arm:	1462 mm aft of datum
4. Nose wheel moment arm:	0 mm aft of datum
5. Fuel moment arm (90 litres total):	1165 mm aft of datum
6. Collector Tank moment arm (10 litres):	1802 mm aft of datum
7. Crew moment arm:	1250 - 1210 mm aft of datum (adj. seat)
8. Baggage moment arm	1802 mm aft of datum
9. Crew weights:	Minimum 55 kg / maximum 110 kg per seat
10. Max baggage weight:	30 kg
11. Aft CG Limit:	1223 mm aft of datum
12. Fwd CG Limit:	1080 mm aft of datum

ANNEX D – POINTS FOR SPECIAL ATTENTION

Tyre Pressures

Main wheels 32 psi.

Front wheel 29 psi.

Shock absorbers – **DO NOT** attempt to adjust, contact TLAC for help as special equipment is required!

Annual Bettometer Test

Stitching only: 1000 grammes using a 1.2mm diameter hook, pull at 90deg to surface of tensioned sail.

Baggage Allowance

30kg using approved carriers with max 15kg per carrier and with fuel appropriate to stay within the 600kg.