BRITISH MICROLIGHT AIRCRAFT ASSOCIATION

MICROLIGHT TYPE ACCEPTANCE DATA SHEET (TADS)

NO: BMO-18 ISSUE: 1

TYPE — LAZAIR III (Privately imported)

(1) MANUFACTURER: Ultraflight Ltd., Port Colbourne, Ontario, Canada.

(2) UK IMPORTER: Mr. M Briggs, 4 Limecroft, Yateley, Camberley, Surrey.

(3) CERTIFICATION BASIS: Reduced BCAR Section S,
as per CAA letter of 17th January 1986, ref: 9/30/UL18

(4) DEFINITION OF BASIC DESIGN STANDARD: Not available, but see BMAA document FS.013 and Lazair Constructor's Manual

(5) DIMENSIONS/WEIGHTS FOR COMPLIANCE WITH MICROLIGHT DEFINITION

(a) Wing area (inc canard area, excluding winglets):	13.35 metres^2
(b) Span:	11.07 metres
(c) Standard Mean Chord:	1.21 metres
(d) Dry Empty Weight:	104 kg (230 lb)
(e) Max Take-Off Weight:	208 kg (460 lb)
(f) Wing Loading (Weight Empty/Wing Area):	7.79 kg/m^2
(g) Wing Loading (Max Take-Off Weight/Wing Area):	15.57 kg/m^2
(h) Fuel Capacity:	20 litres

(6) POWER PLANTS

Designation	Lazair III				
Engine Type	2 x Rotax 185 Upright				
Reduction Gear	1:1 direct drive				
Exhaust System	Ultraflight (with aft muff.)				
Intake System	-				
Propeller Type	Ultraflight bi-blade				
Propeller Dia x Pitch	28 in x 12 in				
Noise Type Cert No.	18M				

Noise requirement

	1 Seat	2 Seat	BCAR Reference
Registered Pre 1/4/86	80 dBA	84 dBA	N3-6, 3 Iss 4
Registered Post 1/4/86	76 dBA	80 dBA	N3-6, 4 Iss 4

(7) MANDATORY LIMITATIONS: * To be placarded

*(a) Max Take-off Weight: 208 kg (460 lb)

*(b) C G Limits: 12 inches to 15.7 inches aft of datum

(c) C G Datum: Wing leading edge

*(d) Cockpit Loadings	Front	Rear	Total
Pilot or Ballast (min)	55 kg	- kg	55 kg
Pilot or Ballast (max)	90 kg	- kg	90 kg

(e) Permanent Ballast, Weight and Position: NONE

(f) Empty C G: 15.34 inches aft of datum.

*(g) Never Exceed Speed: 55 m.p.h.

*(h) Manoeuvring Speed: 47 m.p.h.

*(i) Manoeuvre Limitations: Non Aerobatic

*(j) Fuel Contents (Max Usable): 19.5 litres

(k) Power Plant: See Table

Engine	Rotax 185			
Max RPM	5700			
Max CHT	-			
Max EGT	-			
Fuel Spec	4 Star Petrol/ oil mixture			
Engine Oil Spec	Self mix 2 stroke			
Gearbox Oil Spec	-			
Fuel/Oil Mix	40:1			
Oil Press	-			
Oil Temp	-			
Coolant Temp	-			

(8) INSTRUMENTS REQUIRED FOR TYPE ACCEPTANCE:

ASI	Altimeter	RPM	CHT	Compass	EGT	Coolant Temp
Required	Required					

(9) CONTROL DEFLECTIONS (3-AXIS SYSTEMS):

Pitch Control	Up:	8 ±1 inch	Down:	3½ inch
Tailplane Trim	Up:	n/a	Down:	n/a
Ailerons	Up:	6 ±½ inch	Down:	3 ±½ inch
Rudder	Left:	n/a (inverted V tail)	Right:	n/a (inverted V tail)
Steering	Left:	(castoring tailwheels)	Right:	
Spoilers		-		

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

Ultraflight Pilot's Handbook and Lazair Constructor's Manual

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

See BMAA document FS.013 and Appendix 1

(12) MINIMUM PERFORMANCE AT MAXIMUM T/O WEIGHT:

Rate of Climb: 286 ft/min

Climb Speed:

Stall or Minimum Flying Speed: 21 m.p.h.

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Notes:

1. G A Drawings and/or colour photographs illustrating the principal features of the aircraft described herein, shall be attached to, and form part of, this Data Sheet.

Issue	Date	BMAA Acceptance
1	12 June 1990	P E Owen BMAA Chief Technical Officer

Appendix 1

Additional Documentation

The BMAA document FS.013 gives details of areas on the Lazair III which require the special attention of BMAA Inspectors responsible for inspection of the type. In addition the BMAA review of the Lazair III has indicated a number of required modifications which are detailed in BMAA FS.013. These are listed below:-

Required Modifications

S 603 The addition of Jury struts on main wing brace struts.

S 786 Placard calling for a safety helmet to be worn.

S 993 Fire resistant fuel lines in the vicinity of each engine.

S 995 Installation of on-off fuel cocks.

S 1141 Fire resistant ignition switch wiring.

S 1541 Installation of required placards as called up by Part 7, Mandatory Limitations, of this TADS and the standard occupant warning placard and those placards as called for in the BMAA Inspector's Manual.

Inspection

S 603 Wing brace tubes and brackets

S 605 Wing surface condition at wing D-section and all other flying surfaces covering.

S 627 Occupant seating and seat retention.

S 685 Control system operations and installation (NOTE also that the 0.5 inch diameter control rods fitted on some versions require special attention for wear at the their guidance points and terminations).

S 785 Safety harness installation, condition and conformance with BMAA document TI240289A.

S 901 Engine flexible mounts, spark plug cap retention and propeller bolt installation.

S 951 Fuel line layout.

S 959 Unusable fuel.

S 967 Fuel tank installation.

S 975 Fuel tank vents clear of the aeroplane.

S 1301 Equipment installation and function.

In addition inspectors must pay attention to the Spotlights and Warnings section of the BMAA Inspector's Manual and those matters relating to components or design details of the aeroplane.

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Appendix 2