

CIVIL AVIATION AUTHORITY – SAFETY REGULATION GROUP

MICROLIGHT TYPE APPROVAL DATA SHEET (TADS)

NO: BM11ISSUE: 4

TYPE: LAZAIR III

(1) MANUFACTURER: Ultraflight, Port Colborne, Ontario, Canada.

(2) UK IMPORTER: AMF Microflight Ltd., Membury Airfield, Lambourn,
Berks., RG17 7TJ

Aviation Enterprises Ltd., at the above address, are responsible for continued airworthiness support.

(3) CERTIFICATION: BCAR Section S, Advance Copy March 1983

(4) DEFINITION OF BASIC STANDARD: AMF Drawing no LAZ0001 Iss 1

(5) COMPLIANCE WITH THE MICROLIGHT DEFINITION

(a) MTOW	209 kg
(b) No. Seats	1
(c) Maximum Wing Loading	15.66 kg/m ²
(d) V _{so}	21 mph CAS
(e) Permitted range of pilot weights	54.5 – 98.2kg per seat.
(f) Typical Empty Weight (ZFW)	95 kg
(g) ZFW + 86 kg crew + 1 hr fuel (10 litres)	188.2 kg
(h) ZFW + 86 kg pilot + full fuel (20 litres)	195.4 kg
(i) Max ZFW at initial permit issue	95 kg

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(I) Power Plant See Table

Engine	Rotax 185			
Max RPM	5700			
MAX CHT	NR			
MAX EGT	NR			
Fuel Spec	90 RON minimum unleaded to BS(EN)228 or 97+ octane 4-star /MOGAS leaded fuel to BS 4040,			
Engine Oil Spec	Mineral 2 stroke			
Gearbox oil spec	NA			
Fuel/Oil Mix	25:1			
Coolant Temperature	NA			
Oil Pressure	NA			
Oil Temperature	NA			
Fuel Pressure	NR			

(8) INSTRUMENTS REQUIRED:

ASI	Altimeter	RPM	CHT / EGT	Compass	Coolant temp	Fuel Pressure	VSI	Slip ball
Required Hall type	Required Wrist	NR	NR	NR	NR	NR	NR	NR

(9) CONTROL DEFLECTIONS:

Elevator UP:	8" ± 1" at te	Tailplane trim UP:	NA
Elevator DOWN:	1" gap	Tailplane trim DOWN:	NA
Ailerons* UP:	6" ± ½"	Rudder LEFT:	NA Ruddervators
Ailerons* Down:	3" ± ½"	Rudder RIGHT:	NA Ruddervators

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

10.1 Manuals approved for use with this aircraft.

- (a) Lazair III Pilots handbook Iss 1 Nov 1985
- (b) Lazair Owners Manual (Issued by AMF)

10.2 The following placards are to be fitted:-

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

See Annex D.

(b) Engine Limitations Placard (to be located near to engine instruments)
NA, not instrumented

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

See Annex D

A placard is to be fitted showing fuel capacity (litres), fuel type(s), fuel:oil ratio (if relevant) and if MTOW can be exceeded with full fuel and maximum cockpit weight, the fuel loads at MTOW for cockpit weights of 180kg / 170kg / 160kg etc. at 10kg intervals down to the maximum fuel load. An example is shown at Annex D.

(d) Switches

See Annex D.

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

None

See Annex A for required modifications.

(12) MINIMUM PERFORMANCE AT MAX TAKE-OFF WEIGHT

Rate of Climb: 290 fpm at 27 mph IAS.

Stall or Minimum Flying Speed: 21 mph IAS at MTOW / idle.

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TADS Issue History

	<u>Issue No.</u>	<u>Reason and signatory</u>
1	07/12/85	Initial Issue W A Bevan
2	28/10/86	Addition of noise certification information W A Bevan
3	02/10/87	Correction of designation to Lazair IIIE W A Bevan
4	03/09/03	Revised to the new format

A M Carter

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Illustration of Aircraft - Photograph



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ANNEX A – MANDATORY MODIFICATIONS

1. None

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.

1. None

ANNEX C

WEIGHING INFORMATION

1. CG Datum: Wing root leading edge
2. Weighing attitude: Fuselage boom horizontal
3. Mainwheel moment arm: 6.25” aft of datum
4. Tailwheel moment arm: 128.25” aft of datum
5. Fuel moment arm: NA
6. Crew moment arm: NA
7. Crew weights: Minimum 55 kg / maximum 97 kg
(maximum reducible, not below 86 kg, if required).
8. Aft CG Limit: 15” aft of datum
9. Fwd CG Limit: 12” aft of datum

NOTE; CG measured with pilot seated with and without fuel

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ANNEX D

EXAMPLE PLACARDS

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

LIMITATION PLACARD	
Aircraft	LAZAIR IIIe
Serial No	A xxx
Registration	G-
Vne	55 mph ias
Va, max rough air	45 mph ias
Empty Weight	c 220 lbs
Max all up weight	460 lbs
Max fuel weight	36 lbs
Max pilot weight (full fuel)	204 lbs
Min pilot weight	120 lbs
Aerobatics and deliberate spinning prohibited.	

* This must match the most recent W&CG report for the aircraft.

(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. This requirement need not be complied with for limitations shown as coloured markers (red for danger, amber for caution) on the instrument displays.

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

FUEL PLACARD
Fuel grade 4 *
Mix ratio 25:1
Fuel capacity 4.5 imp gall
Unuseable fuel ½ gall

(d) Switches

All switches are to be marked with function and sense (up=on, down=off).