

CIVIL AVIATION AUTHORITY – SAFETY REGULATION GROUP

MICROLIGHT TYPE APPROVAL DATA SHEET (TADS)

NO: BM-48 ISSUE: 5

- (D) Manoeuvring Speed 54 mph IAS
- (E) Permitted Manoeuvres Non-aerobatic
 Max Pitch Angle 30°
 Max Bank Angle 60°
 Normal acceleration limits, +4 / -2g
 Aerobatics and Spinning prohibited
- (F) Fuel contents (max useable) 21 litres
 37 litres (95/MOD/001)
- (G) Power Plant

Engine	Rotax 447	Rotax 503 2C2V (95/MOD/001)	Rotax 503 2C2V Tug (95/MOD/001) & (95/MOD/002)
Max RPM	7000	6900	6900
Max CHT	250 °C	250 °C	250 °C
Max EGT	650°C	650°C	650°C
Fuel Spec	83 MON or 90 RON minimum unleaded to BS(EN)228, or 97+ octane MOGAS leaded fuel to BS 4040, or AVGAS 100LL	83 MON or 90 RON minimum unleaded to BS(EN)228, or 97+ octane MOGAS leaded fuel to BS 4040, or AVGAS 100LL	83 MON or 90 RON minimum unleaded to BS(EN)228, or 97+ octane MOGAS leaded fuel to BS 4040, or AVGAS 100LL
Engine Oil Spec	non-detergent self mixing 2-stroke	non-detergent self mixing 2-stroke	non-detergent self mixing 2-stroke
Gearbox Oil Spec	EP90	EP90	EP90
Fuel / Oil Mix	50:1	50:1	50:1
Max Coolant Temp	N/A	N/A	N/A
Max Oil Pressure	N/A	N/A	N/A
Min Oil Pressure	N/A	N/A	N/A
Oil Temperature	N/A	N/A	N/A

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(8) INSTRUMENTS REQUIRED

ASI	Altimeter	RPM	EGT	CHT	Coolant Temp	Compass	Fuel Pressure	VSI
Required	Required	Required	Either EGT or CHT required		Optional	Optional	Optional	Optional

(9) CONTROL DEFLECTIONS

Conventional weightshift controls.

(10) PILOTS NOTES, MAINTENANCE MANUALS, REFERENCES:

10.1 Manuals approved for operators use with this aircraft

Reference Ultraflight FUN 18s GTBis Pilots Operating Handbook (as revised)

10.2 The following placards are to be fitted.

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

See Annex D.

(b) Engine Limitations Placard

See Annex D.

(c) Fuel Limitations Placard

See Annex D.

(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: 353 fpm at 39 mph IAS
522 fpm at 41 mph IAS (95/MOD/001)
300 fpm (95/MOD/002 Tug when towing)

Stall or minimum flying speed: 32 mph IAS
28 mph IAS (95/MOD/001)

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Issue History

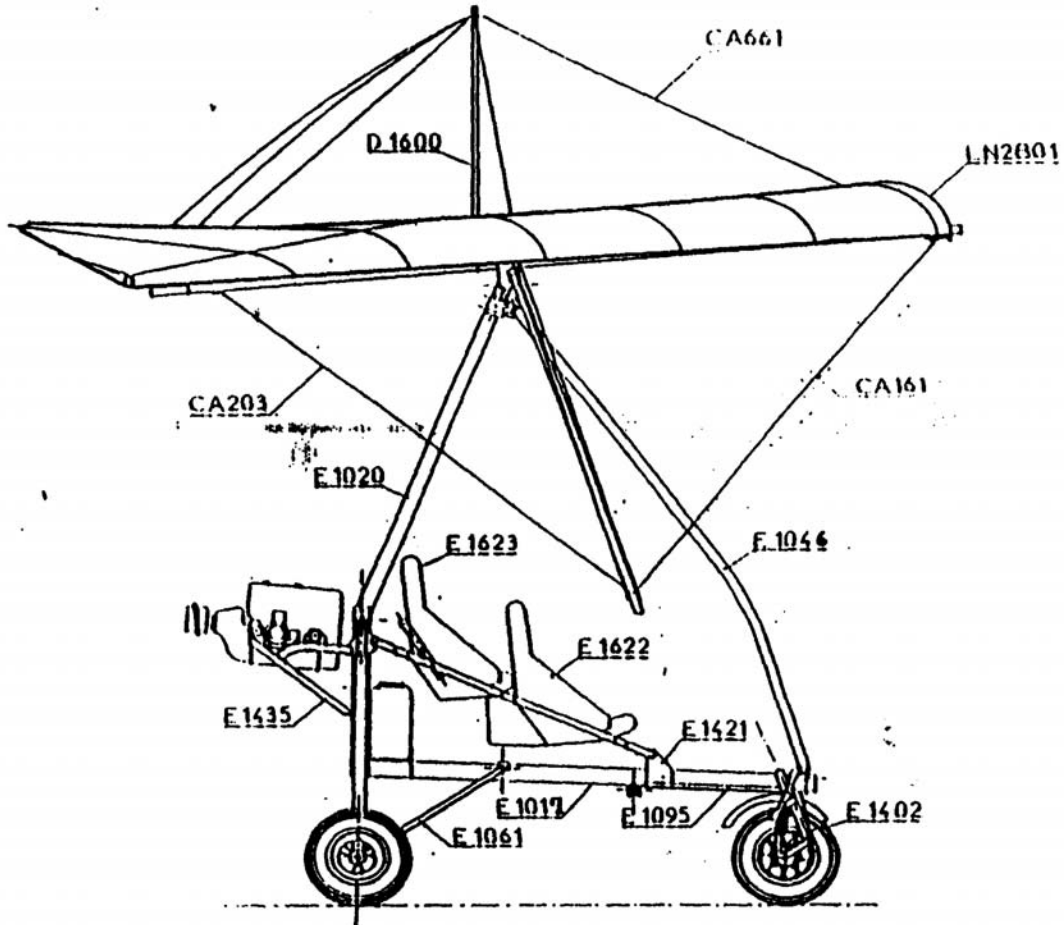
<u>Issue No.</u>		<u>Reason and signatory</u>
1	29/09/94	Initial issue A M Carter
2	09/08/95	Introduction of FUN 18s GTBis 503 by 95/MOD/001 (AAN25017) A M Carter
3	30/10/95	Deletion of text A M Carter
4	10/04/96	Introduction of modification 95/MOD/002 to FUN 18s GTBis 503 variant (AAN25104) A M Carter
5	03/09/03	Revised to new format

J Barratt

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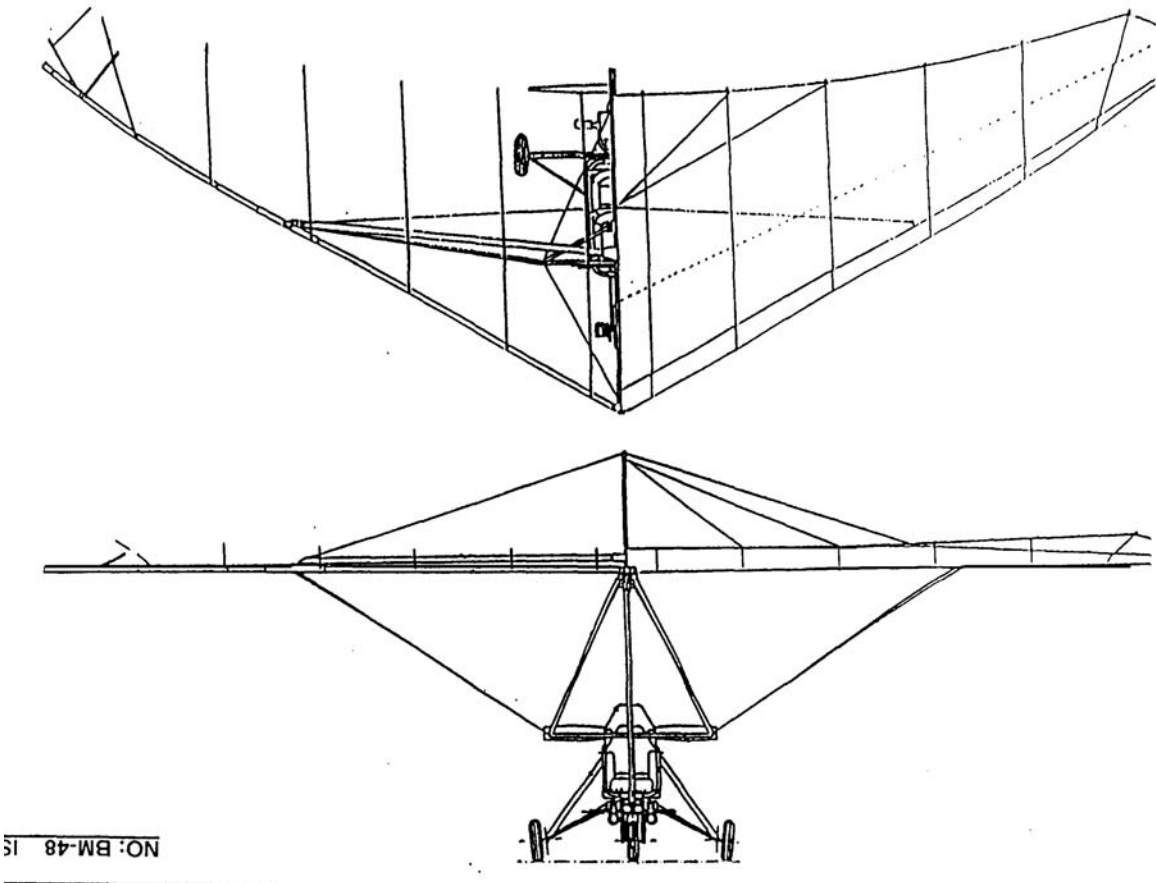
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Illustration of Aircraft



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ANNEX A – MANDATORY MODIFICATIONS

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. TIL105 Flexwing rear upper torso restraint may be used to replace the original inertia reel shoulder harness.
2. 95/MOD/001: Introduction of Rotax 503 2C2V engine with associated fuel capacity and all up weight increases.
3. 95/MOD/002: Introduction of Hang Glider towing equipment (This modification is dependent on 95/MOD/001 having already been applied.)

ANNEX C – WEIGHING INFORMATION

- | | |
|-----------------------|--|
| 1. Weighing Attitude: | Unimportant. Trike and wing may be weighed separately if required. |
| 2. Crew Weights: | Minimum 75 kg. Maximum 90 kg per seat.
(Maximum reducible, not below 86kg, if required) |
| 3. Fuel load: | 21 litres
37 litres (95/MOD/001) |
| 4. MTOW | 354.5 kg
380 kg (95/MOD/001)
286.5 kg (95/MOD/002) when towing |

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ANNEX D – EXAMPLE PLACARDS

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

Max take-off weight not to exceed 354.5 kg / 380 kg (95/MOD/001) / 286.5 kg (95/MOD/002) when towing

Cockpit loadings must be between 75 and 180 kg

V_{NE} 62 mph IAS (50 mph IAS when towing)

V_A 54 mph

Non-aerobatic. Max pitch angle 30°, max bank angle 60°.

(b) Engine Limitations Placard (to be visible to pilot)

A placard showing the limitations for all the 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)

A placard is to be fitted showing fuel capacity, fuel type(s), fuel : oil ratio (if relevant) and if MTOW can be exceeded with full fuel and 180kg cockpit weight, the fuel loads at MTOW for cockpit weights of 180kg / 170kg etc. at no more than 10kg intervals down to the maximum fuel load.

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ANNEX E - POINTS FOR SPECIAL ATTENTION

In service, the following points have been found to be commonly recurring problems, and Inspectors must give special attention to the following:

1. (blank)
2. (blank)
3. (blank)
4. (blank)
5. (blank)
6. (blank)
7. (blank)
8. (blank)
9. (blank)
10. (blank)