

MICROLIGHT TYPE ACCEPTANCE DATA SHEET (TADS)

NO: BMO-54    ISSUE: 1

TYPE             LIGHTNING/WILDCAT, LIGHTNING II/WILDCAT, LIGHTNING II/WILCAT MK2.  
                    (LIGHTNING II MAY BE REGISTERED AS MK II, MK2, PHASE 2, SERIES 2)

- (1) MANUFACTURER:                             SOUTHDOWN SAILWINGS LTD,  
  (NO LONGER TRADING)
- (2) UK IMPORTER: N/A
- (3) CERTIFICATION BASIS: BCAR Section S requirements listed in CAA document  
  dated 17th January 1986, ref: 9/30/UL18
- (4) DEFINITION OF BASIC STANDARDS: As defined by MAAN 1195 and this TADS.
- (5) DIMENSIONS/WEIGHT FOR COMPLIANCE WITH MICROLIGHT DEFINITION

- (a) Wing area (inc canard area, excluding winglets): 16.3 m<sup>2</sup>
- (b) Span: 10 m
- (c) Standard Mean Chord: 1.63 m
- (d) Dry Empty Weight: 102 kg
- (e) Max Take-Off Weight: 210 kg
- (f) Wing Loading (Weight Empty/Wing Area): 6.25 kg/m<sup>2</sup>
- (g) Wing Loading (Max Take-Off Weight/Wing Area): 12.8 kg/m<sup>2</sup>
- (h) Fuel Capacity: 25 litres

(6) POWER PLANTS

Designation	LIGHTNIG/ WILDCAT				
Engine Type	Fuji Robin EC34PM inv				
Reduction Gear	2.3:1				
Exhaust System	NICKLOW				
Intake System	-				
Propeller Type	WOOD 2 blade				
Propeller Dia x Pitch	54" x 33"				
Noise Type Cert No.	23m ISS 4				

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- (7) MANDATORY LIMITATIONS: \* To be placarded
- (A) Max Take-off Weight: 210kg \*
  - (B) C G Limits (3-Axis Aircraft): N/A
  - (C) C G Datum: N/A
  - (D) Cockpit Loadings:
 

	Front	Rear	Total
Pilot and Baggage or Ballast (Min)	55kg	0	55kg *
Pilot and Baggage (Max)	90kg	0	90kg *
  - (E) Permanent Ballast, Weight and Position: None
  - (F) Empty C of G (3-Axis Aircraft): N/A
  - (G) Never Exceed Speed: 43 knots (50mph) \*
  - (H) Manoeuvring Speed: 38 knots (44mph) \*
  - (I) Permitted Manoeuvres: Non Aerobatic Pitch  $<+ 30^0$  \*  
 Roll  $<60^0$  \*
  - (J) Fuel Contents (Max Useable): 25 litres
  - (K) Power Plant See Table

Engine	Fuji Robin EC34PM				
Max RPM	7000				
MAX CHT					
Fuel Spec	83MON or 90 RON min. Petrol/Oil				
Oil Spec	Self Mix 2 Stroke				
Fuel/Oil Mix	40:1				
Max EGT					
Oil Press					
Oil Temp					

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(8) INSTRUMENTS REQUIRED FOR TYPE ACCEPTANCE:

ASI	Altimeter	RPM	CHT	Compass	EGT Coolant Temp
Req 0-55mph	Req Wrist Type Acceptable				

(9) CONTROL DEFLECTIONS (3-Axis Systems): N/A

Pitch Control	Up:-	Down:-
Tailplane Trim	Up:-	Down:-
Ailerons	Up:-	Down:-
Rudder	Left:-	Right:-
Steering	Left:-	Right:-
Spoilers		

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

Fuji Robin EC34PM engine manual.  
Maintain to BMAA schedule MMS issue 1.

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

As defined by MAAN 1195 and BMAA document WS006.

(12) MINIMUM PERFORMANCE AT MAX TAKE-OFF WEIGHT

Rate of Climb: 500 ft/min (Using Fuji Robin EC34PM Engine).  
Climb Speed: 26knots (30mph)  
Stall or Minimum Flying Speed: 19knots (23mph)

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Notes

1. G A Drawings and/or photographs illustrating the principal features of the aircraft submitted for type approval shall be attached to, and form part of, this Data Sheet.

Issue

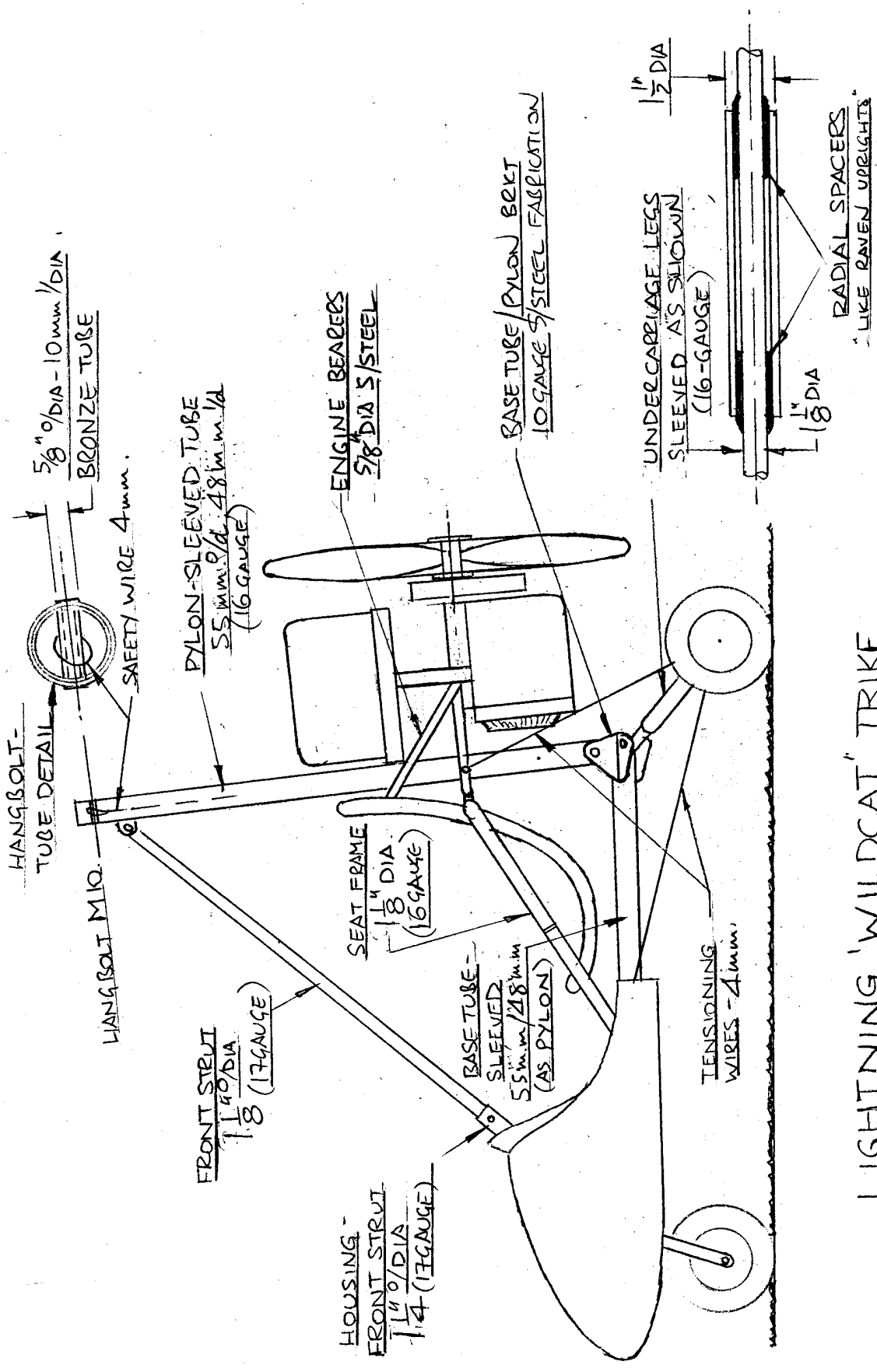
Date

BMAA approval

1

*28/9/94*

*W.G. Brook*



LIGHTNING 'WILDCAT' TRIKE  
DIMENSIONS of PRINCIPAL FEATURES  
MATL SPEC ALUM. ALLOY HT 301E  
UNLESS OTHERWISE STATED. JCH 19 MAY 93