

BRITISH MICROLIGHT AIRCRAFT ASSOCIATION

MICROLIGHT TYPE ACCEPTANCE DATA SHEET (TADS)

NO: BMO-28 ISSUE: 1

TYPE: TYPHOON/TARJANI TRIKE
(G-MJCU - only example of type)

- (1) MANUFACTURER: Wing: Solar Wings Ltd (UK)
Trike: F. Tarjani (UK)
- (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 DESIGN STANDARD: Not available (but see appendix)
- (5) DIMENSIONS/WEIGHTS FOR COMPLIANCE WITH MICROLIGHT DEFINITION

- (a) Wing area (inc canard area, excluding winglets): 15.4 m²
- (b) Span: 10.0 m
- (c) Standard Mean Chord: 1.54 m
- (d) Dry Empty Weight: 85 kg
- (e) Max Take-Off Weight: 205 kg
- (f) Wing Loading (Weight Empty/Wing Area): 5.52 kg/m²
- (g) Wing Loading (Max Take-Off Weight/Wing Area): 13.31 kg/m²
- (h) Fuel Capacity: 15 litres

DOCUMENT ISSUE STATUS

Issue Number	Revision Reference	Date	Authorisation	Pages affected	Valid pages at this Issue number 1	
					Page No.	Page Issue
1	New MAAN 1135	14.12.93	BMAA <i>R-70</i>	All new		
					1	1
					2	1
					3	1
					4	1
					5	1
					6	1
					7	1
					8	1

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(6) POWER PLANTS

Designation	Typhoon/ Tarjani Trike				
Engine Type	Fuji Robin EC25PS. Invtd				
Reduction Gear/ratio	2.32:1				
Exhaust System	Nicklow				
Intake System	-				
Propeller Type	Laminated wood				
Propeller Dia x Pitch	52" x 28"				
Noise Type Cert. No.	108M Issue 1				

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Engine Type					
Reduction Gear/ratio					
Exhaust System					
Intake System					
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Noise requirement:

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

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(7) MANDATORY LIMITATIONS: (* indicates which are placarded)

- *(a) Max Take-off Weight: 205 kg
- *(b) C G Limits: N/A - weightshift
- (c) C G Datum: -
- *(d) Cockpit Loadings

	<u>Front</u>	<u>Rear</u>	<u>Total</u>
Pilot or Ballast (min)	55 kg	- kg	55 kg
Pilot or Ballast (max)	90 kg	- kg	90 kg
- (e) Permanent Ballast, Weight and Position: Not fitted.
- (f) Empty C G: -
- *(g) Never Exceed Speed: 55 mph
- *(h) Manoeuvring Speed: 55 mph
- *(i) Manoeuvre Limitations: Aerobatics prohibited. Roll <60° bank
Pitch <+/- 30°
- *(j) Fuel Contents (Max Usable): 15 litres
- (k) Power Plant: See Table below

ENGINE	Fuji Robin EC25PS			
Max RPM	6500			
Max CHT	N/A			
Max EGT	N/A			
Fuel Spec	92 Oct (min) Petrol/oil			
Engine Oil Spec	Self mix 2 stroke			
Gearbox Oil Spec	N/A			
Fuel/Oil Mix	40:1			
Oil Pressure	N/A			
Oil Temp	N/A			
Coolant Temp	N/A			

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(8) INSTRUMENTS REQUIRED FOR TYPE ACCEPTANCE:

<u>ASI</u>	<u>Altimeter</u>	<u>RPM</u>	<u>CHT</u>	<u>Compass</u>	<u>EGT</u>	<u>Coolant Temp</u>
Required 0 to >55 mph or equivalent	Required Wrist type acceptable	Required	N/A	N/A	N/A	N/A

(9) CONTROL DEFLECTIONS (3-AXIS SYSTEMS): N/A - weightshift

<u>Pitch Control</u>	Up:	Down:
<u>Tailplane Trim</u>	Up:	Down:
<u>Ailerons</u>	Up:	Down:
<u>Rudder</u>	Left:	Right:
<u>Steering</u>	Left:	Right:
<u>Spoilers</u>	N/A	

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

BMAA documents: MAAN 1135, WS.003 and TS.006

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

See Appendix 1

(12) APPROVED OPTIONAL MODIFICATIONS

(13) MINIMUM PERFORMANCE AT MAX T/O WEIGHT:

Rate of Climb: 300 ft/minute

Stall or Minimum Flying Speed: 28 mph

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Note: 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
Authorisation

Date

BMAA

1 BMAA

14 December

P. F. Ostry

APPENDIX 1.

ADDITIONAL DOCUMENTATION

The Typhoon/Tarjani Trike must satisfy the modification and inspection provisions set out in BMAA documents WS.003 and TS.006 (latest issue). The areas affected are as follows:

a) Modifications:

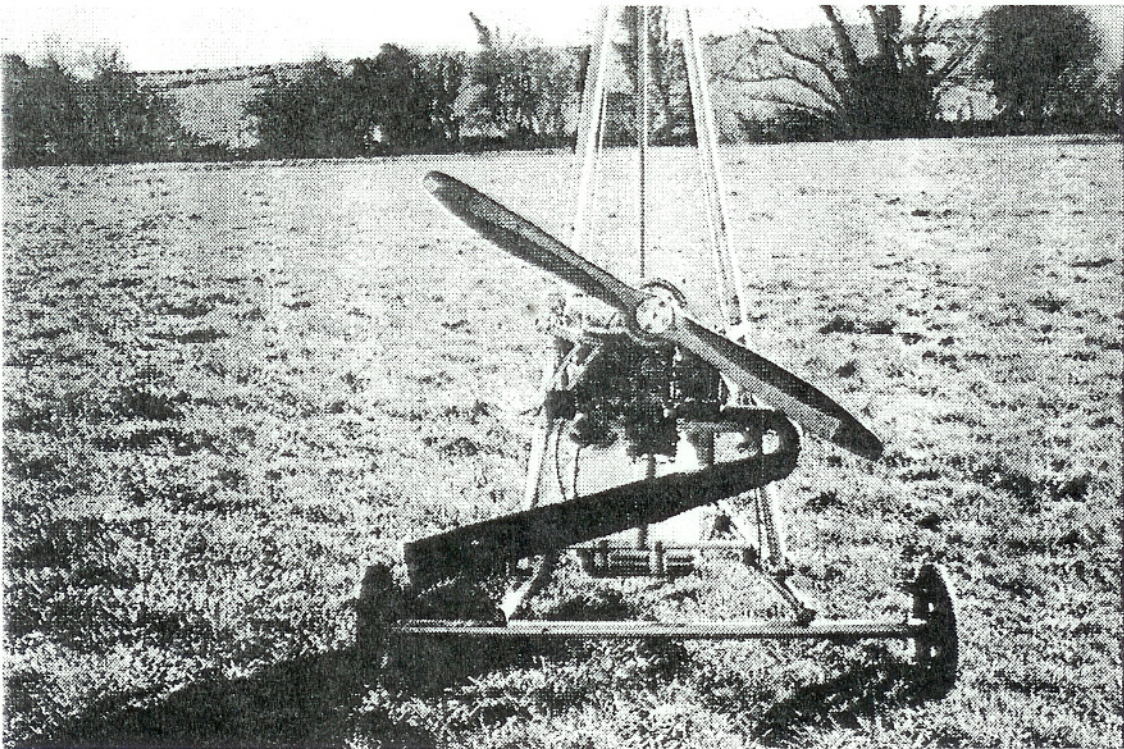
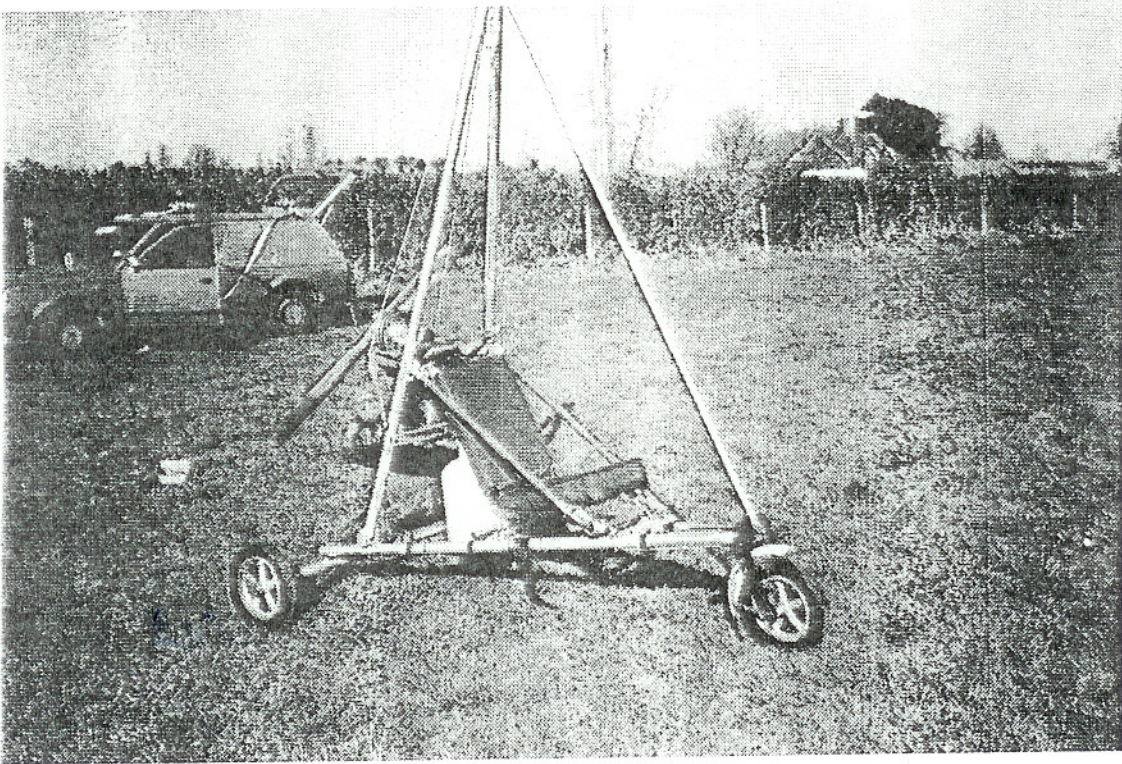
- S 605 E i) Wing attachment bracket. ii) Front strut.
- S 627 Non flexible coating.
- S 786 Safety helmet placard.
- S 901 Power plant installation, carburettor support.
- S 993 d) Fuel lines.
- S 995 Fuel cock.
- S 1141 E Ignition switch wiring.
- S 1303 1) Airspeed indicator.
- S 1303 2) Altimeter placard (where applicable).
- S 1541 Other placards.

b) Inspection:

- S 603 Basic structure of trike.
- S 605 E Welds on engine supports, seat frame, and front wheel assembly.
- S 607 Wing batten retainers. Self locking propeller shaft nut (if fitted).
- S 609 (Wing): Keel. Sail fabric. Negative load bracing wires.
- S 623 Hang channels and trike attachments.
- S 626 Cables swages and rigging cables.
- S 627 Oversleeving of control frame uprights and cross bar.
Nose catch to be inspected.
- S 785 Safety harness/seat belt and attachments.
- S 901 b) 1) Power plant installation.
- S 925 b) Clearance between propeller and aircraft structure.
- S 951 Fuel system - vapour locks.
- S 959 Unusable fuel.
- S 967 Fuel tank installation.
- S 975 c) Fuel tank vents.
- S 977 b) Fuel filter.
- S 993 e) Fuel lines.
- S 1145 Ignition switch.
- S 1301 Installed equipment.

In addition, Inspectors must pay attention to the relevant "Spotlight" and Defect Warning reports in the BMAA Inspectors' Manual.

TARJANI TRIKE



TYPHOON SINGLE PLACE WING

Basic structure minimum standard:

Leading edges: 1.75 inch 17g HT30TF
with 1 metre long oversleeve, 17g

Keel: 1.75 inch 18g HT30TF

Cross tubes: 2 inch 17g HT30TF
with 17g oversleeve of 1.16 metres each side

Control frame
uprights: 1.125 inch 16g
with 17g full length sleeve.

Rigging wires minimum:

Side wires: 3mm
Remainder: 2.5mm

