CIVIL AVIATION AUTHORITY – SAFETY REGULATION GROUP

MICROLIGHT TYPE APPROVAL DATA SHEET (TADS)

BM76 ISSUE 4

TYPE: **AEROCHUTE DUAL**

(1) MANUFACTURER: Aerochute Industries Pty Ltd., 12 Acheson Place, North Coburg, VIC 3058, Australia

(2) UK IMPORTER: Powerchute UK Ltd, 1 Sapcote Drive, Melton Mowbray, Leicestershire, LE12 1HG Tel: 01664 562445

(3) CERTIFICATION: BCAR Section S Advance Copy March 1983 Plus Applicable Working Papers

(4) DEFINITION OF BASIC STANDARD: Aerochute Dual trike base: Drawing list MRI 001, Issue 3
Aerochute 367 ft2 (34 m2) wing: Drg list MRI 015, Iss A

(5) COMPLIANCE WITH THE MICROLIGHT DEFINITION

(a)	MTOW	300 kg
(b)	No. Seats	2
(c)	Maximum Wing Loading	8.82 kg/m²
(d)	Vso	-
(e)	Permitted range of pilot weights	50 – 182.5 kg
(f)	Typical Empty Weight (ZFW)	107 kg
(g)	ZFW + 172 kg crew + 1 hr fuel (litres/kg)	289.5 kg
(h)	ZFW + 86 kg pilot + full fuel (litres/kg)	214 kg
(i)	Max ZFW at initial permit issue	113 kg

(6) POWER PLANTS

Designation	Aerochute Dual			
Engine Type	Rotax 503 DCDI			
Reduction Gear	2.58 : 1			
Exhaust System	Tingate tuned			
Intake System	K&N intake filter or Rotax intake silencer			
Propeller Type	Ivo 3-blade			
Propeller Dia x Pitch	58” x 10° (at tip)			
Noise Type Cert No.	191M			
AAN approving configuration	**29099**			

INVESTOR IN PEOPLE

(7) MANDATORY LIMITATIONS:

(a) Max Take-Off Weight — 300 kg

(b) CG Limits — Relates to trike unit only.
The Center of Gravity Limitations of the Aerochute are the rear seat bar and 140mm forward (per Operators Manual).

(c) CG datum — ¼ chord point of the top plate, i.e. 47.5mm from the centre line of the front attachment lug. (see annex C)

(d) Cockpit Loadings

	Port	Starboard	Total
Min	-	-	50 kg
Max	-	-	82.5 kg

(e) Never Exceed Speed — 72 kph

(f) Manoeuvring Speed — 60 kph

(g) Permitted Manoeuvres — Non Aerobatic

(h) Fuel Contents (Max Useable) — **29 litres**

(i) Power Plant — See Table

Engine	Rotax R503 DCDI			
Max RPM	6800			
MAX CHT	250°C			
MAX EGT	650°C			
Fuel Spec	83 MON or 90 RON minimum unleaded to BS(EN)228 or 97+ octane 4-star /MOGAS leaded fuel to BS 4040, or AVGAS 100LL.			
Engine Oil Spec	2 - stroke			
Gearbox Oil Spec	85W-140			
Fuel/Oil Mix	50:1			
Coolant Temp	n/a			
Oil Pressure	n/a			
Oil Temp	n/a			
Fuel Pressure	n/a			

(8) INSTRUMENTS REQUIRED:

ASI	Altimeter	RPM	CHT / EGT	Compass	Coolant temp	Fuel Pressure	VSI	Slip ball
-	Required	-	-	-	-	-	-	-

(9) CONTROL DEFLECTIONS:

Canopy trailing edge maximum deflection 750mm.

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

10.1 Manuals approved for use with this aircraft.

(a) Aerochute Operators Manual Issue 3 and

(b) Aerochute 34m^2 / 367 Sq ft Ram Air Parachute – Owners Manual

10.2 The following placards are to be fitted See Annex D

(a) Flight Limitations Placard (to be visible to pilot)
See Annex D

(b) Engine Limitations Placard (to be located near to engine instruments)
See Annex D

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

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:

See Annex A for required modifications.

(12) MINIMUM PERFORMANCE AT MAX TAKE-OFF WEIGHT

367 sq ft Canopy - 34m^2 :

Rate of Climb:	300 fpm.
Stall or Minimum Flying Speed:	n/a

Issue History

Issue No.	Reason and signatory
1	Initial approval
2	Corrections
3	Correction of text covering switch sense placarding.
4	Update UK importer details.

A C Love

Illustration of Aircraft - 3 View

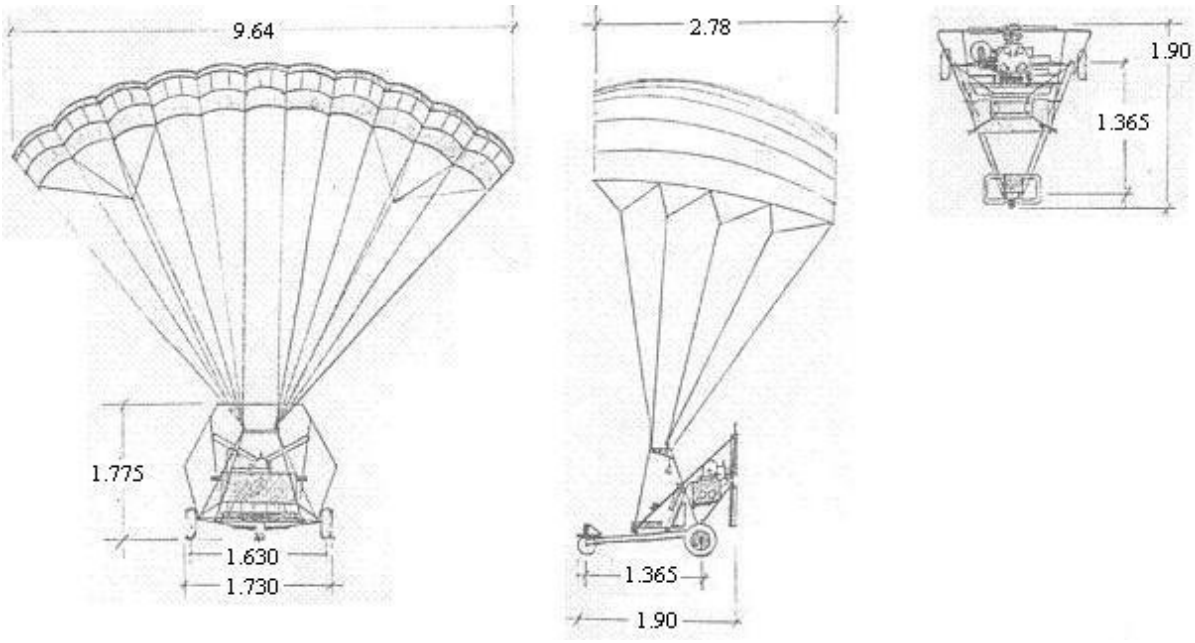

Illustration of Aircraft – Photograph

ANNEX A MANDATORY MODIFICATIONS

1.	Mod. No.	Description
	-	-

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.	Mod. No.	Description
	-	-

ANNEX C WEIGHING INFORMATION

1.	Weighing attitude:	Unimportant
2.	Crew weights:	Minimum 50kg / maximum 182.5 kg
3.	Fuel load:	29 litres
4.	MTOW:	300 kg

ANNEX D EXAMPLE PLACARDS

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

EMPTY WEIGHT 107KG * **MAX. WEIGHT 300KG** **MAX. COCKPIT LOAD 173KG / 182.5KG***

AEROBATIC MANOEUVRES PROHIBITED

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

AEROCHUTE IND. PTY. LTD. **MODEL: AEROCHUTE** **FRAME NO.** **ENGINE NO.** **PARACHUTE NO.** **REG No.** **VICTORIA AUSTRALIA**

(b) Limitations Placard (to be located near to engine instruments)

Not applicable

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

FUEL GRADE	**98 octane**
OIL	**2 STROKE**
PETROL:OIL RATIO	**50:1**
USABLE FUEL	**29 LITRES**

(d) Switches

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

ON **DOWN**	**OFF** **UP**