

CIVIL AVIATION AUTHORITY – SAFETY REGULATION GROUP

MICROLIGHT TYPE APPROVAL DATA SHEET (TADS)

**NO: BM - 26 ISSUE: 6**

TYPE	SNOWBIRD MK IV	
(1)	MANUFACTURER:	Original: Noble Hardman Aviation Ltd Continued Airworthiness: BMAA  Parts may be obtained from Snowbird Aviation, Bremia, Stagshead, Llangeitho, Tregaron, Ceredigion, SY25 6QU
(2)	UK IMPORTER:	N/A
(3)	CERTIFICATION:	BCAR Section S Small Light Aeroplanes (Advanced Copy) dated March 1983 and Revised Definition 1988
(4)	DEFINITION OF BASIC STANDARD:	SB-GA-001 Issue A
(5)	COMPLIANCE WITH THE MICROLIGHT DEFINITION	
	(a) MTOW	385 kg
	(b) No. Seats	2
	(c) Maximum Wing Loading	25 kg/m <sup>2</sup>
	(d) Permitted range of pilot weights	55 – 180 kg
	(e) Typical Empty Weight (ZFW)	181 kg
	(f) ZFW + 172 kg crew + 1 hr fuel (24 litres / 17 kg)	368 kg
	(g) ZFW + 86 kg pilot + full fuel (30 litres / 22 kg)	289 kg
	(h) Max allowed ZFW at initial permit issue <sup>#</sup>	198 kg

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<sup>#</sup> The maximum ZFW is the lower of [(a)-(172kg+1hrs fuel)] or [(a)-(86kg+full fuel)].  
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(I) Power Plant

Engine	Bombardier Rotax 532		
Max RPM	2500 (using original electronic panel) 6500 (using direct engine RPM gauge)		
Max CHT	N/A		
Max EGT	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		
Engine Oil Spec	2-stroke oil		
Gearbox oil spec	Castrol TTS or Castrol 545		
Fuel/Oil Mix	50:1 (2%)		
Max. Coolant Temp.	N/A		
Max. Oil Pressure	N/A		
Min. Oil Pressure	N/A		
Oil Temperature	N/A		
Fuel pressure at cruise power	0.2 to 0.4 bar		

(8) Instruments Required:

ASI	Altimeter	RPM	EGT	Compass	Coolant temp	CHT	Fuel Pressure	VSI	Slip ball
Required	Required	Required	Required	Optional	At least one required		Required	Optional	Optional

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(9) CONTROL DEFLECTIONS:

Elevator UP:	18° ± 5°	Steering LEFT:	18° ± 2°
Elevator DOWN:	11° ± 5°	Steering RIGHT:	18° ± 2°
Spoilers UP:	40° ± 5°	Rudder LEFT:	15° ± 2°
Spoilers DOWN:	flat on wing	Rudder RIGHT:	15° ± 2°

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

10.1 Manuals approved for use with this aircraft.

Pilots Handbook Snowbird MK IV Doc No. PH-1 Issue 2  
Maintenance Manual Snowbird MK IV Doc No. MM Issue 1

10.2 The following limitations placards are to be fitted:

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

Max take-off weight not to exceed 385 kg  
Cockpit loadings must be between 55 and 180 kg  
V<sub>NE</sub> 80 kts  
V<sub>A</sub> 61 kts  
Non-aerobatic

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

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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- (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:	500 fpm at 38 kts IAS
Stall or Minimum Flying Speed:	33 kts IAS

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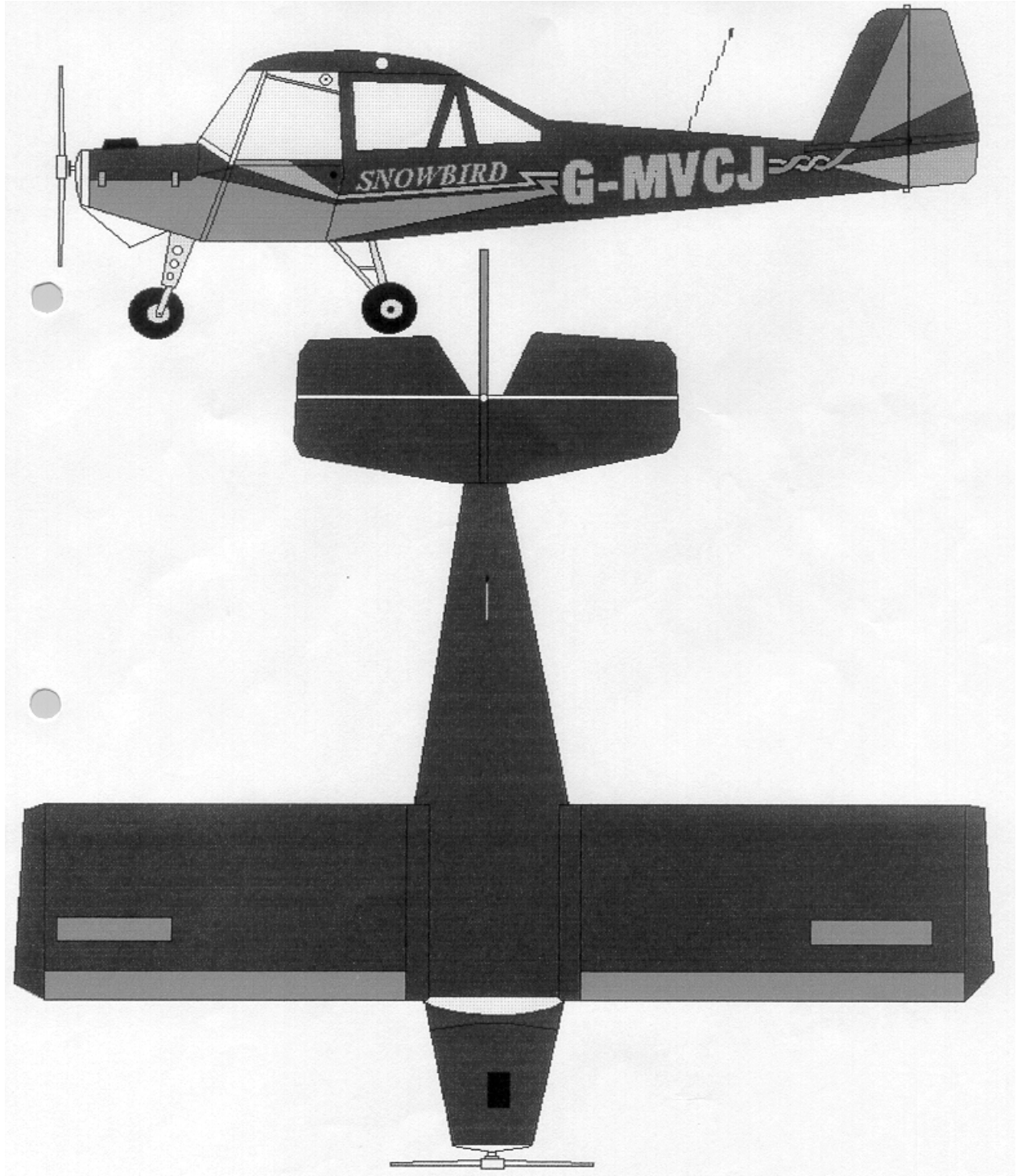
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Issue History

<u>Issue No.</u>	<u>Reason and signatory</u>
1	14/06/88 Initial Issue W A Bevan
2	18/07/89 W A Bevan
3	09/08/90 W A Bevan
4	12/02/91 W A Bevan
5	18/06/99 Amendments to fuel capacity and CG limitation data, inclusion of Annex A - 'Weighing Information' and Drawing of Aircraft. C J Whittaker
6	08/07/03 Document revised to new format.

J Barratt

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.

**PM001** Omnibus modification for Ref G-MTRY Con No. SB005 only

**PM002** Newton 63” dia x 43” pitch propeller

ANNEX C - WEIGHING INFORMATION

1. CG Datum: Main spar web (384 mm aft of leading edge)
2. Weighing attitude: All 3 wheels on a level surface
3. Mainwheel moment arm: 190 mm aft of datum
4. Nosewheel moment arm: 1250 mm fwd of datum
5. Fuel moment arm: 610 mm aft of datum
6. Crew moment arm: 160 mm aft of datum
7. Minimum Crew load: 55 kg
8. Maximum Crew load: 90 kg per seat (unless reduced, not below 86 kg)
9. Aft CG Limit: 79 mm aft of datum
10. Fwd CG Limit: 23 mm fwd of datum
11. MTOW: 385 kg



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ANNEX D - PLACARDS

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

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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 both during initial approval, and during later inspections.

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