

BGA glider data sheet - Nimbus 3DT (two seat "turbo" 25.6 meter span)

Data source: Flight Manual (Nov 1987) & Maintenance Manual Rev 12 (Dec 1999)

Manufacturer: Schempp Hirth, Flugzeugbau GmbH, Postfach 1443, D-73222 Kirchheim/Teck, Germany
 Phone: 00 49 7021 7298-0 Fax: 00 49 7021 7298-199 www.schempp-hirth.com

UK Agent: Southern Sailplanes Phone: 0148 871774

Weighing Data:

	Kg	Pounds
Max weight (with water)	800	1764
Max landing weight	800	1764
Max pilot weight (seat load)	110	242
Max weight of non lifting components (everything except wings)	450	992
	mm	Inches
Forward C of G limit (aft of datum)	20	0.79
Aft C of G limit (aft of datum)	200	7.87
Front pilot (forward of datum)	1468	57.8
Rear pilot (forward of datum)	339	13.35
Each standard nose weight reduces min front pilot weight by 5 Kg.		

Control deflections in mm

	Up	Down	Distance - hinge to measuring point	Max free play
Ailerons	28 ±5	14 ±3	141	3 mm total
Flaps +2				
Elevator	51 ±5	51 ±5	167	3 mm total
Rudder	Left 190 ±20	Right 190 ±20	410	
Flaps -2 0 L	32 ± 5	Up 0 42 ± 5 down	185	3 mm total
L & brakes		110±12 down		
Spoileron	75±10 up		53	
Measure spoileron with flaps L and full aileron				

Longitudinal datum: Wing root LE root rib. Horizontal datum: Rear fuselage top 1000:45 tail down

The main wheel is on datum (a = 0). Main wheel to tail skid (b) 5290mm. Main wheel to tail wheel is 5252mm.

The fuel is 291mm aft. Upper tank 16 litres (15 useable, lower tank 14 litres (13.5 useable)).

The fin tank is 5290mm aft, max capacity 5 Kg. Engine is 1110mm aft of datum. Max fore & aft play of wing tip 30mm

Maximum speeds

	Knots	Kph
VNE	148	275
Rough air	103	190
Aerotow	97	180
U/C down	97	180
Winch / auto tow	81	150
Flaps +2, +1 & 0	86	160
Flaps "L"	76	140
Engine out	73	135

VNE at altitude		
Height in feet	Knots	Kph
10 000	142	263
13 000	134	249
16 500	127	236
20 000	121	224
23 000	114	212
26 000	108	200
29 500	102	188
33 000	96	177
39 500	83	154

Controls Weights and balance

see Maintenance Manual page 2.2.1

Max winch weak link: 1040 daN (black)

Tyre pressures: Main 57 psi (4 Bar) Tail 43 psi (3 bar)

Non aerobatic, intentional spinning prohibited. Cloud flying is not permitted.

Fuel is 2 stroke min RON 96. Fuel oil mixture 30:1. Oil is Castrol Super TT two stroke oil.

Brake fluid SAE - J 1703 or US specification FMVVS 116, DOT 3 resp. DOT 4

This sheet compiled by: Tim Macfadyen

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Latest update 14 April 2015 Cloud flying not permitted, previously allowed in error. Ref BGA Technical Committee meeting 11/4/2015