

BGA glider data sheet - Janus CT Self sustainer ("Turbo")

Data source: Flight Manual

Date of issue: June 1980 & Janus CT Flight Manual Sept 1984

Manufacturer: Schempp Hirth, Flugzeugbau GmbH, Postfach 1443, D-73222 Kirchheim/Teck, Germany

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Weighing Data:

	Kg	Pounds
Max weight (with water)	700	1543
Max landing weight	700	1543
Max pilot weight (seat load)	110	242
Max weight of non lifting components (everything except wings)	450	992
BGA concession non-aerobatic max weight of non lifting components [+5%]	472	1042
	mm	Inches
Forward C of G limit (aft of datum)	40	1.58
Aft C of G limit (aft)	270	10.63
Front pilot (forward of datum)	1300	51.2
Rear pilot (forward of datum)	190	7.5
Max non fixed baggage 5 Kg.		
Max fixed equipment in centre section 25 Kg.		

Control deflections in mm

	Up	Down	Distance - hinge to measuring point
Ailerons Flaps 0	80 +10 -7	40 +7 -5	193
Flaps	24 ±3	62 ±7	201
Rudder	Left & right 255 ± 20		450
The above are as per Mod SB No 295-21			

Longitudinal datum: Wing root LE root rib.

Horizontal datum: Rear fuselage top 1000:45 tail down

The fuel tank is 470 mm in front of datum. Contents 27 litres (26 useable). Fuel weight is 20 Kg.

Maximum speeds

	Knots	Kph
VNE	135	250
Rough air	97	180
Manoeuvre	97	180
U/C down	97	180
Winch / auto tow	81	150
Aerotow	97	180
Flaps "L"	76	140
Engine extended	86	160
Max engine RPM 4000		

VNE at altitude			
Height in Meters	Height in feet	Knots	Kph
3 000	10 000	129	240
4 000	13 000	122	227
5 000	16 500	116	215
6 000	20 000	111	205
7 000	23 000	104	193
8 000	26 000	98	182
9 000	29 500	93	172
10 000	33 000	87	161
12 000	39 500	76	140

Max winch weak link: 910 daN (Brown)

Tyre pressures: Main 64 psi (4.5 Bar) Nose 35 psi (2.5 bar)

Semi aerobatic. Cloud flying is permitted without water.

Fuel is Automobile premium min 96 RON. 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

Span 20 meters

This sheet compiled by: Tim Macfadyen

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