DHV TESTREPORT LTF DHV TESTREPORT EN

OPERATING INSTRUCTION

DHY

DHV TESTREPORT EN 926-2:2013+A1:2021

on GIN Bonanza 3 M	
no DHV GS-01-2804-23	
on GIN Gliders Inc.	A STATE OF THE STA
er GIN Gliders Inc.	
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ng Yes	
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cor Yes	
ers No	
	 DHV GS-01-2804-23 GIN Gliders Inc. GIN Gliders Inc. GIN Gliders Inc. C Yes ax 1 / 1 Yes

PARTS LIST

DATASHEET



	BEHAVIOUR AT MIN WEIGHT IN FLIGHT (95KG)	BEHAVIOUR AT MAX IN FLIGHT (110KG)
Test pilots	Harald Buntz	Sebastian Mackrodt
Inflation/take-off	No release B	No release B
Rising behaviour	Easy rising, some pilot correction is required	Easy rising, some pilot co required
Special take off technique required	No	No
<u>Landing</u>	Α	Α
Special landing technique required	No	No
Speeds in straight flight	В	Α
Trim speed more than 30 km/h	Yes	Yes
Speed range using the controls larger than 10 km/h	Yes	Yes
Minimum speed	25 km/h to 30 km/h	Less than 25 km/h
Control movement	c	Α
	• ·	

Greater than 65 cm

	No release	No release
nflation/take-off	В	В
Rising behaviour	Easy rising, some pilot correction is required	Easy rising, some pilot correction is required
Special take off technique required	l No	No
anding	Α	A
Special landing technique required	l No	No
peeds in straight flight	В	A
Trim speed more than 30 km/h	Yes	Yes
Speed range using the controls larger than 10 km/h		Yes
Minimum speed	25 km/h to 30 km/h	Less than 25 km/h
ontrol movement	c	A
Symmetric control pressure	Increasing	Increasing

Symmetric control travel 45 cm to 60 cm Ditch stability exiting accolorated flight

Pitch stability exiting accelerated flight Dive forward angle on exit Collapse occurs		A Dive forward less than 30° No
Pitch stability operating controls during accelerated flight	Α	Α
Collapse occurs	No	No
Roll stability and damping Oscillations	A Reducing	A Reducing
	A	A
Tendency to return to straight flight		Spontaneous exit
Behaviour exiting a fully developed spiral dive Initial response of glider (first 180°)	en : keine unmittelbare Reaktion	B en : keine unmittelbare Reaktion
	Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous recovery	Spontaneous exit (g force decreasing rate of turn decreasing) Less than 720°, spontaneous recover
	c	c
Recovery	Rocking back less than 45° Spontaneous in less than 3 s	Rocking back less than 45° Spontaneous in less than 3 s
Dive forward angle on exit Change of course Cascade occurs	Keeping course	Dive forward 0° to 30° Keeping course No
Folding lines used		yes
<u>Jnaccelerated collapse (at least 50 % chord)</u> Entry	C Rocking back less than 45°	c Rocking back less than 45°
Dive forward angle on exit		Spontaneous in less than 3 s Dive forward 30° to 60°
Change of course Cascade occurs Folding lines used	No	Entering a turn of less than 90° No yes
	c	c
Recovery	Rocking back less than 45° Spontaneous in less than 3 s	Rocking back less than 45° Spontaneous in 3 s to 5 s
Dive forward angle on exit Change of course Cascade occurs	Keeping course	Dive forward 30° to 60° Entering a turn of 90° to 180° No
Folding lines used	-	yes
Exiting deep stall (parachutal stall) Deep stall achieved	B Yes	C Yes
Recovery Dive forward angle on exit	Spontaneous in less than 3 s Dive forward 30° to 60°	Spontaneous in 3 s to 5 s Dive forward 0° to 30°
Change of course Cascade occurs	Changing course less than 45° No	Changing course less than 45° No
	A Spontaneous in less than 3 s	A Spontaneous in less than 3 s
Cascade occurs	No	No
Dive forward angle on exit		B Dive forward 30° to 60°
Collapse Cascade occurs (other than collapses) Rocking back		No collapse No Less than 45°
<u> </u>	Most lines tight	Most lines tight
Small asymmetric collapse Change of course until re-inflation	C Less than 90°	c Less than 90°
	Dive or roll angle 0° to 15° Inflates in less than 3 s from start of pilot action	Dive or roll angle 15° to 45° Spontaneous re-inflation
Total change of course Collapse on the opposite side occurs	Less than 360° No (or only a small number of collapsed cells	
Twist occurs	with a spontaneous re inflation) No	collapsed cells with a spontaneous re inflation) No
Cascade occurs Folding lines used		No yes
;,,,,,,_	C	c
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour		90° to 180° Dive or roll angle 15° to 45° Spontaneous re-inflation
Total change of course	action Less than 360°	Less than 360°
	No (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Twist occurs Cascade occurs Folding lines used	No	No No yes
	C	c
Change of course until re-inflation Maximum dive forward or roll angle	Dive or roll angle 15° to 45°	Less than 90° Dive or roll angle 15° to 45°
	Inflates in less than 3 s from start of pilot action Less than 360°	Spontaneous re-inflation Less than 360°
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous reinflation)
Twist occurs Cascade occurs		No
Folding lines used	-	yes
Change of course until re-inflation		90° to 180°
	Dive or roll angle 15° to 45° Inflates in less than 3 s from start of pilot action	Dive or roll angle 15° to 45° Inflates in less than 3 s from start of pilot action
	Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)	
Twist occurs		collapsed cells with a spontaneous reinflation) No
Cascade occurs Folding lines used		No yes
Directional control with a maintained asymmetric collapse	Α	Α
Able to keep course 180° turn away from the collapsed side possible in		Yes Yes
10 s Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	More than 50 % of the symmetric control travel
/-	Α	Α
Spin occurs Low speed spin tendency	No	No
Low speed spin tendency Spin occurs	<u>.</u>	No
Recovery from a developed spin Spin rotation angle after release	A Stops spinning in less than 90°	B Stops spinning in 90° to 180°
Cascade occurs		No
B-line stall Not carried out because the manoeuvre is excluded in the	e user's manual	
	B Standard technique	B Standard technique
Behaviour during big ears Recovery	Stable flight Recovery through pilot action in less than a	Stable flight Recovery through pilot action in less
Dive forward angle on exit	further 3 s Dive forward 0° to 30°	than a further 3 s Dive forward 0° to 30°
	B Standard technique	B Standard technique
Behaviour during big ears Recovery	Stable flight Recovery through pilot action in less than a	Stable flight Recovery through pilot action in less
	further 3 s Dive forward 0° to 30°	than a further 3 s Dive forward 0° to 30°
Dive forward angle on exit Behaviour immediately after releasing the	Stable flight	Stable flight
Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears		
Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears	A Yes	Stable flight A Yes No