DHV TESTREPORT LTF DHV TESTREPORT EN DATASHEET

OPERATING INSTRUCTION DEPRINT

DHY

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

Type designation	GIN Bonanza 3 L	
Type test reference no	DHV GS-01-2805-23	
Holder of certification	GIN Gliders Inc.	A STATE AND
Manufacturer	GIN Gliders Inc.	
Classification	C	
Winch towing	Yes	
Number of seats min / max	1 / 1	
Accelerator	Yes	
Trimmers	No	

PARTS LIST

	BEHAVIOUR AT MIN WEIGHT IN FLIGHT (105KG)	BEHAVIOUR AT MAX WEIGHT IN FLIGHT (125KG)
	Sebastian Mackrodt	Mario Eder
<u>Inflation/take-off</u>	No release B	No release B
Rising behaviour Special take off technique required		Easy rising, some pilot correction is required No
Landing Special landing technique required		No
<u>Speeds in straight flight</u>	Α	B
Trim speed more than 30 km/h Speed range using the controls larger than 10 km/h	Yes	Yes Yes
	Less than 25 km/h	25 km/h to 30 km/h
Symmetric control pressure Symmetric control travel	-	Increasing 50 cm to 65 cm
Pitch stability exiting accelerated flight Dive forward angle on exit		A Dive forward less than 30°
Collapse occurs Pitch stability operating controls during		No
accelerated flight Collapse occurs		No
Roll stability and damping Oscillations		A Reducing
<u>Stability in gentle spirals</u> Tendency to return to straight flight		A Spontaneous exit
Behaviour exiting a fully developed spiral dive		B
1	Spontaneous exit (g force decreasing, rate of turn decreasing)	rate of turn decreasing)
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	720° to 1 080°, spontaneous recove
Entry Recovery	Rocking back less than 45° Spontaneous in 3 s to 5 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 0° to 30° Entering a turn of less than 90° No
Folding lines used Unaccelerated collapse (at least 50 % chord)	yes	yes C
Entry Recovery	Rocking back less than 45° Spontaneous in 3 s to 5 s	Rocking back less than 45° Spontaneous in 3 s to 5 s
Dive forward angle on exit Change of course Cascade occurs	Entering a turn of 90° to 180°	Dive forward 0° to 30° Entering a turn of less than 90° No
Folding lines used	yes	yes C
Entry Recovery	Rocking back less than 45° Spontaneous in 3 s to 5 s	Rocking back less than 45° Spontaneous in 3 s to 5 s
Cascade occurs	Entering a turn of 90° to 180° No	Dive forward 0° to 30° Entering a turn of less than 90° No
Folding lines used <u>Exiting deep stall (parachutal stall)</u>		yes A
Deep stall achieved Recovery	Yes Spontaneous in 3 s to 5 s	Yes Spontaneous in less than 3 s
Dive forward angle on exit Change of course Cascade occurs	Changing course 45° or more	Dive forward 0° to 30° Changing course less than 45° No
		A
Cascade occurs		Spontaneous in less than 3 s No
Dive forward angle on exit		A Dive forward 0° to 30° No collapse
Cascade occurs (other than collapses) Rocking back	No Less than 45°	No Less than 45°
	Most lines tight C	Most lines tight
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour	Dive or roll angle 15° to 45°	90° to 180° Dive or roll angle 0° to 15° Inflates in less than 3 s from start of
Total change of course Collapse on the opposite side occurs	Less than 360° No (or only a small number of collapsed cells	pilot action Less than 360° No (or only a small number of
Twist occurs	with a spontaneous re inflation) No	collapsed cells with a spontaneous reinflation) No
Cascade occurs Folding lines used	•	No yes
Change of course until re-inflation	90° to 180°	90° to 180°
	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)	Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)
Twist occurs Cascade occurs	No	No No
Folding lines used second seco	·	yes C
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour		Less than 90° Dive or roll angle 0° to 15° Inflates in less than 3 s from start o
Total change of course	action	pilot action Less than 360°
	with a spontaneous re inflation)	collapsed cells with a spontaneous reinflation)
Cascade occurs Folding lines used	No	No yes
Change of course until re-inflation	90° to 180°	C 90° to 180°
	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 or pilot action
	Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)	collapsed cells with a spontaneous re
Twist occurs Cascade occurs	No	inflation) No No
Folding lines used Directional control with a maintained		yes
asymmetric collapse Able to keep course	Yes	Yes Yes
180° turn away from the collapsed side possible in 10 s 10 s Amount of control range between turn and stall or spin	More than 50 % of the symmetric control	Yes More than 50 % of the symmetric control travel
<u>Trim speed spin tendency</u>	Α	Α
Spin occurs		No
Low speed spin tendency	^	
Spin occurs	No	No
Spin occurs	No B Stops spinning in 90° to 180°	No A Stops spinning in less than 90° No
Spin occurs <u>Recovery from a developed spin</u> Spin rotation angle after release Cascade occurs <u>B-line stall</u>	No B Stops spinning in 90° to 180° No	A Stops spinning in less than 90°
Spin occurs Recovery from a developed spin Spin rotation angle after release Cascade occurs B-line stall Not carried out because the manoeuvre is excluded in the	No B Stops spinning in 90° to 180° No user's manual	A Stops spinning in less than 90°
Spin occurs Recovery from a developed spin Spin rotation angle after release Cascade occurs B-line stall Not carried out because the manoeuvre is excluded in the Big ears Entry procedure Behaviour during big ears	No B Stops spinning in 90° to 180° No user's manual B Standard technique Stable flight	A Stops spinning in less than 90° No B Standard technique Stable flight
Spin occurs Recovery from a developed spin Spin rotation angle after release Cascade occurs B-line stall Not carried out because the manoeuvre is excluded in the Big ears Entry procedure Behaviour during big ears Recovery	No B Stops spinning in 90° to 180° No user's manual B Standard technique Stable flight Recovery through pilot action in less than a further 3 s	A Stops spinning in less than 90° No B Standard technique Stable flight
Spin occurs Recovery from a developed spin Spin rotation angle after release Cascade occurs B-line stall Not carried out because the manoeuvre is excluded in the Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Big ears in accelerated flight	No B Stops spinning in 90° to 180° No user's manual B Standard technique Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° B	A Stops spinning in less than 90° No B Standard technique Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° B
Spin occurs Recovery from a developed spin Spin rotation angle after release Cascade occurs B-line stall Not carried out because the manoeuvre is excluded in the Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery	No B Stops spinning in 90° to 180° No user's manual B Standard technique Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° B Standard technique Stable flight Recovery through pilot action in less than a	A Stops spinning in less than 90° No B Standard technique Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° B Standard technique Stable flight Recovery through pilot action in less
Spin occurs Recovery from a developed spin Spin rotation angle after release Cascade occurs B-line stall Not carried out because the manoeuvre is excluded in the Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the	No B Stops spinning in 90° to 180° No user's manual B Standard technique Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° B Standard technique Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30°	A Stops spinning in less than 90° No B Standard technique Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° B Standard technique Stable flight
Spin occurs Recovery from a developed spin Spin rotation angle after release Cascade occurs B-line stall Not carried out because the manoeuvre is excluded in the Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears	No B Stops spinning in 90° to 180° No user's manual B Standard technique Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° B Standard technique Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° B Standard technique Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight	A Stops spinning in less than 90° No B Standard technique Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° B Standard technique Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30°