DHV TESTREPORT LTF DHV TESTREPORT EN DATASHEET PARTS LIST OPERATING INSTRUCTION

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

GIN CALYPSO 2 L		
Type designation	GIN Calypso 2 L	
Type test reference no	DHV GS-01-2907-24	
Holder of certification	GIN Gliders Inc.	
Manufacturer	GIN Gliders Inc.	
Classification	В	m
Winch towing	Yes	
Number of seats min / max	1 / 1	
Accelerator	Yes	
Trimmers	No	

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18

	BEHAVIOUR AT MIN WEIGHT II FLIGHT (95KG)	N BEHAVIOUR AT MAX WEIGHT IN FLIGHT (120KG)
Tes	st pilots	Sebastian Mackrodt
	No release	No release
Inflation/take-off	Α	Α
Rising be	haviour Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique r		No
<u>Landing</u>	А	A
Special landing technique re	equired No	No
<u>Speeds in straight flight</u>	A	A
Trim speed more than 3	0 km/h Yes	Yes
Speed range using the controls larger	than 10 Yes km/h	Yes
Minimun	n speed Less than 25 km/h	Less than 25 km/h
<u>Control movement</u>	A	¦A
Symmetric control p	ressure Increasing	Increasing
Symmetric contro	<b>I travel</b> Greater than 60 cm	Greater than 65 cm
Pitch stability exiting accelerated flight	A	<b>A</b>
Dive forward angle	on exit Dive forward less than 30°	Dive forward less than 30°
Collapse	e occurs No	No

Pitch stability operating controls during accelerated flight		
	Α	Α
Collapse occurs	No	No
	<u>.</u>	A
Oscillations	A	Reducing
Stability in gentle spirals Tendency to return to straight flight	<u>.</u>	Spontaneous exit
<u>Behaviour exiting a fully developed spiral dive</u>	Α	Α
Initial response of glider (first 180°) Tendency to return to straight flight		Immediate reduction of rate of tur Spontaneous exit (g force
Turn angle to recover normal flight	rate of turn decreasing) Less than 720°, spontaneous recovery	decreasing, rate of turn decreasing Less than 720°, spontaneous recovery
Entry	A Rocking back less than 45° Spontaneous in less than 3 s	A Rocking back less than 45° Spontaneous in less than 3 s
Dive forward angle on exit Change of course	Dive forward 0° to 30°	Dive forward 0° to 30° Keeping course
Cascade occurs Folding lines used	No	No
Unaccelerated collapse (at least 50 % chord)		A
Entry	Rocking back less than 45°	Rocking back less than 45°
Dive forward angle on exit		Spontaneous in less than 3 s Dive forward 0° to 30°
Cascade occurs		Keeping course No
Folding lines used		no
Entry	A Rocking back less than 45°	A Rocking back less than 45°
Recovery Dive forward angle on exit	Spontaneous in less than 3 s Dive forward 0° to 30°	Spontaneous in less than 3 s Dive forward 0° to 30°
Change of course Cascade occurs	Entering a turn of less than 90° No	Entering a turn of less than 90° No
Folding lines used	no	no
Exiting deep stall (parachutal stall) Deep stall achieved	A Yes	A Yes
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s Dive forward 0° to 30°
	Changing course less than 45°	Changing course less than 45° No
	A	A
	Spontaneous in less than 3 s	Spontaneous in less than 3 s
		No
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Cascade occurs (other than collapses)		No collapse No
Rocking back Line tension	Less than 45° Most lines tight	Less than 45° Most lines tight
Small asymmetric collapse	Α	Α
Change of course until re-inflation Maximum dive forward or roll angle		Less than 90° Dive or roll angle 0° to 15°
Re-inflation behaviour Total change of course	•	Spontaneous re-inflation Less than 360°
Collapse on the opposite side occurs		No (or only a small number of collapsed cells with a spontaneous
Twist occurs	No	re inflation) No
Cascade occurs Folding lines used	-	No no
Large asymmetric collapse	Α	Α
Change of course until re-inflation Maximum dive forward or roll angle		Less than 90° Dive or roll angle 15° to 45°
Re-inflation behaviour Total change of course		Spontaneous re-inflation Less than 360°
Collapse on the opposite side occurs		No (or only a small number of collapsed cells with a spontaneous
Twist occurs		re inflation) No
Cascade occurs Folding lines used	-	No no
Small asymmetric collapse accelerated	Α	Α
Change of course until re-inflation Maximum dive forward or roll angle		Less than 90° Dive or roll angle 15° to 45°
Re-inflation behaviour Total change of course	•	Spontaneous re-inflation Less than 360°
Collapse on the opposite side occurs		No (or only a small number of collapsed cells with a spontaneous
Twist occurs	No	re inflation) No
	-	No
Cascade occurs Folding lines used	110	
Folding lines used	A	В
Folding lines used Large asymmetric collapse accelerated Change of course until re-inflation	A Less than 90°	<b>B</b> 90° to 180°
Folding lines used	A Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation	В
Folding lines used Large asymmetric collapse accelerated Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour	A Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360°	<b>B</b> 90° to 180° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous
Folding lines used Large asymmetric collapse accelerated Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs	A Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No	B 90° to 180° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No
Folding lines used Large asymmetric collapse accelerated Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs	A Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No	90° to 180° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)
Folding lines used Large asymmetric collapse accelerated Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Collapse on the opposite side occurs Cascade occurs Folding lines used	A Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No	B 90° to 180° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No
Folding lines used Large asymmetric collapse accelerated Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Collapse on the opposite side occurs Cascade occurs Folding lines used Directional control with a maintained asymmetric collapse Able to keep course	A Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No No No Yes	<b>B</b> 90° to 180°         Dive or roll angle 15° to 45°         Spontaneous re-inflation         Less than 360°         No (or only a small number of collapsed cells with a spontaneous re inflation)         No         No         No         No         Yes
Folding lines used Large asymmetric collapse accelerated Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Collapse on the opposite side occurs Cascade occurs Folding lines used Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in 10 s	A Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No No No Yes Yes	<b>B</b> 90° to 180°         Dive or roll angle 15° to 45°         Spontaneous re-inflation         Less than 360°         No (or only a small number of collapsed cells with a spontaneous re inflation)         No         No         No         Yes         Yes
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Folding lines used Large asymmetric collapse accelerated Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Collapse on the opposite side occurs Cascade occurs Folding lines used Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin Trim speed spin tendency Spin occurs	A Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No No No No No No No No No	B         90° to 180°         Dive or roll angle 15° to 45°         Spontaneous re-inflation         Less than 360°         No (or only a small number of collapsed cells with a spontaneous re inflation)         No         No         No         No         No         No         More than 50 % of the symmetric control travel         A         No
Folding lines used Large asymmetric collapse accelerated Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Collapse on the opposite side occurs Cascade occurs Folding lines used Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin Trim speed spin tendency Spin occurs	A Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No No No No No No No No No	B         90° to 180°         Dive or roll angle 15° to 45°         Spontaneous re-inflation         Less than 360°         No (or only a small number of collapsed cells with a spontaneous re inflation)         No         Nore than 50 % of the symmetric control travel
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Folding lines used Large asymmetric collapse accelerated Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Collapse on the opposite side occurs Cascade occurs Folding lines used Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin Trim speed spin tendency Cow speed spin tendency Spin occurs Cascade occurs B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs Big ears Big ears in accelerated flight	A Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No No No No No A Yes Yes More than 50 % of the symmetric control travel A No A No A Stops spinning in less than 90° No A Changing course less than 90° No A Changing course less than 90° No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° No	B         90° to 180°         Dive or roll angle 15° to 45°         Spontaneous re-inflation         Less than 360°         No (or only a small number of collapsed cells with a spontaneous re inflation)         No         No         A         Yes         Yes         More than 50 % of the symmetric control travel         A         No         A         Changing course less than 90°         No         A         Changing course less than 45°         Remains stable with straight span         Spontaneous in less than 3 s         Dive forward 0° to 30°         No         A         Dedicat
Folding lines used Large asymmetric collapse accelerated Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Cascade occurs Folding lines used Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin Trim speed spin tendency Cascade occurs Recovery from a developed spin Spin rotation angle after release Cascade occurs B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs Big ears Entry procedure Behaviour during big ears Behaviour during big ears	A         Less than 90°         Dive or roll angle 15° to 45°         Spontaneous re-inflation         Less than 360°         No (or only a small number of collapsed cells with a spontaneous re inflation)         No         No         No         No         A         Yes         Yes         Yes         Yes         Yes         No         A         Changing course less than 90°         No         A         Changing course less than 45°         Remains stable with straight span         Spontaneous in less than 3 s         Dive forward 0° to 30°         No         A         Dedicated controls         Stable flight <td>B         90° to 180°         Dive or roll angle 15° to 45°         Spontaneous re-inflation         Less than 360°         No (or only a small number of collapsed cells with a spontaneous re inflation)         No         No         A         Yes         Yes         Yes         Yes         Yes         No         A         No         A         No         A         Stops spinning in less than 90°         No         A         Changing course less than 45°         Remains stable with straight span         Spontaneous in less than 3 s         Dive forward 0° to 30°         No         A         Dedicated controls         Stable flight         Spontaneous in less than 3 s         Dive forward 0° to 30°</td>	B         90° to 180°         Dive or roll angle 15° to 45°         Spontaneous re-inflation         Less than 360°         No (or only a small number of collapsed cells with a spontaneous re inflation)         No         No         A         Yes         Yes         Yes         Yes         Yes         No         A         No         A         No         A         Stops spinning in less than 90°         No         A         Changing course less than 45°         Remains stable with straight span         Spontaneous in less than 3 s         Dive forward 0° to 30°         No         A         Dedicated controls         Stable flight         Spontaneous in less than 3 s         Dive forward 0° to 30°
Folding lines used Large asymmetric collapse accelerated Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Cascade occurs Folding lines used Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin Trim speed spin tendency Cov speed spin tendency Spin occurs Cascade occurs Beline stall Change of course before release Behaviour before release Behaviour before release Behaviour before release Behaviour during big ears Big ears Big ears Big ears accelerated flight Entry procedure Behaviour during big ears Recovery Covery Cover	A         Less than 90°         Dive or roll angle 15° to 45°         Spontaneous re-inflation         Less than 360°         No (or only a small number of collapsed cells with a spontaneous re inflation)         No         No         No         No         No         No         No         No         No         A         Yes         Yes         Yes         Yes         Yes         Yes         No         A         No         A         Changing course less than 90°         No         A         Changing course less than 90°         No         A         Changing course less than 45°         Remains stable with straight span         Spontaneous in less than 3 s         Dive forward 0° to 30°         No         A         Dedicated controls         Stable flight         Spontaneous in less than 3 s         Dive forward 0° to 30°         A         Dedicated controls	B         90° to 180°         Dive or roll angle 15° to 45°         Spontaneous re-inflation         Less than 360°         No (or only a small number of collapsed cells with a spontaneous re inflation)         No         No         No         No         No         No         A         Yes         Yes         Yes         Yes         Yes         No         A         No         A         No         A         Changing course less than 90°         No         A         Changing course less than 45°         Remains stable with straight span         Spontaneous in less than 3 s         Dive forward 0° to 30°         No         A         Dedicated controls         Stable flight         Spontaneous in less than 3 s         Dive forward 0° to 30°         No         A         Dedicated controls         Stable flight         Spontaneous in 2 s to 5 s
Folding lines used Large asymmetric collapse accelerated Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Cascade occurs Folding lines used Directional control with a maintained asymmetric collapse Able to keep course 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin Trim speed spin tendency Colver spin occurs Cascade occurs Beline stall Change of course before release Behaviour before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Elig ears in accelerated flight 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 Big ears in accelerated flight 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 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 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 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 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 during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward	A         Less than 90°         Dive or roll angle 15° to 45°         Spontaneous re-inflation         Less than 360°         No (or only a small number of collapsed cells with a spontaneous re inflation)         No         No         No         No         No         No         No         No         No         A         Yes         Yes         Yes         Yes         Yes         Yes         No         A         No         A         Changing course less than 90°         No         A         Changing course less than 90°         No         A         Changing course less than 45°         Remains stable with straight span         Spontaneous in less than 3 s         Dive forward 0° to 30°         No         A         Dedicated controls         Stable flight         Spontaneous in less than 3 s         Dive forward 0° to 30°         A         Dedicated controls	B         90° to 180°         Dive or roll angle 15° to 45°         Spontaneous re-inflation         Less than 360°         No (or only a small number of collapsed cells with a spontaneous re inflation)         No         No         No         No         No         No         A         Yes         Yes         Yes         More than 50 % of the symmetric control travel         A         No         A         Changing course less than 90°         No         A         Changing course less than 45°         Remains stable with straight span         Spontaneous in less than 3 s         Dive forward 0° to 30°         No         A         Dedicated controls <t< td=""></t<>