DHV TESTREPORT LTF DHV TESTREPORT EN

OPERATING INSTRUCTION DATASHEET PARTS LIST

DH

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

GIN EVORA XL		
Type designation	GIN Evora XL	
Type test reference no	DHV GS-01-2742-23	
Holder of certification	GIN Gliders Inc.	
Manufacturer	GIN Gliders Inc.	0
Classification	В	. ,
Winch towing	Yes	Statement of the Statem
Number of seats min / max	1 / 1	
Accelerator	Yes	
Trimmers	No	



Test pilots	FLIGHT (115KG)	BEHAVIOUR AT MAX WEIGHT IN FLIGHT (135KG)
Inflation/take-off	No release	No release A
Rising behaviour Special take off technique required	Smooth, easy and constant rising No	Smooth, easy and constant rising No
Landing Special landing technique required	•	A No
	<u>.</u>	Α
	Yes Less than 25 km/h	Yes Yes Less than 25 km/h
<u>Control movement</u> Symmetric control pressure Symmetric control travel	Increasing	A Increasing Greater than 65 cm
-	<b>A</b> Dive forward less than 30°	Dive forward less than 30°
<u>Pitch stability operating controls during</u> accelerated flight	Α	Α
Collapse occurs	No	No
<u>Roll stability and damping</u> Oscillations	<u>.</u>	Reducing
<u>Stability in gentle spirals</u> Tendency to return to straight flight	<u>.</u>	<b>A</b> Spontaneous exit
Behaviour exiting a fully developed spiral dive Initial response of glider (first 180°) Tendency to return to straight flight Turn angle to recover normal flight	Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing)	A Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing Less than 720°, spontaneous recovery
Entry	Rocking back less than 45° Spontaneous in less than 3 s Dive forward 0° to 30° Keeping course	A Rocking back less than 45° Spontaneous in less than 3 s Dive forward 0° to 30° Keeping course No
Folding lines used <u>Unaccelerated collapse (at least 50 % chord)</u>		no A
Entry	Rocking back less than 45° Spontaneous in less than 3 s Dive forward 0° to 30° Keeping course No	Rocking back less than 45° Spontaneous in less than 3 s Dive forward 0° to 30° Keeping course No no
Entry	Rocking back less than 45° Spontaneous in less than 3 s Dive forward 0° to 30° Keeping course	A Rocking back less than 45° Spontaneous in less than 3 s Dive forward 0° to 30° Keeping course No
Folding lines used	no	no
Deep stall achieved	•	A Yes Spontaneous in less than 3 s
Dive forward angle on exit Change of course	Dive forward 0° to 30° Changing course less than 45°	Dive forward 0° to 30° Changing course less than 45°
	A Spontaneous in less than 3 s	No A Spontaneous in less than 3 s No
		A
Dive forward angle on exit Collapse Cascade occurs (other than collapses)	No collapse	Dive forward 0° to 30° No collapse No
Rocking back		Less than 45° Most lines tight
Small asymmetric collapse Change of course until re-inflation	<u>.</u>	<b>A</b> Less than 90°
Maximum dive forward or roll angle Re-inflation behaviour	Dive or roll angle 0° to 15° Spontaneous re-inflation	Dive or roll angle 0° to 15° Spontaneous re-inflation
Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	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) No
Folding lines used		no
Large asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle	Less than 90°	A Less than 90° Dive or roll angle 15° to 45°
Re-inflation behaviour Total change of course	Spontaneous re-inflation Less than 360°	Spontaneous re-inflation Less than 360°
	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 no
		Α
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour	Dive or roll angle 0° to 15°	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation
Total change of course Collapse on the opposite side occurs	Less than 360° No (or only a small number of collapsed	Less than 360° No (or only a small number of
Twist occurs		collapsed cells with a spontaneous re inflation) No
Cascade occurs Folding lines used	-	No no
Change of course until re-inflation	Less than 90°	<b>B</b> 90° to 180°
Maximum dive forward or roll angle Re-inflation behaviour Total change of course	Spontaneous re-inflation	Dive or roll angle 15° to 45° 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)
Twist occurs Cascade occurs	No	No
Folding lines used <u>Directional control with a maintained</u>		no
asymmetric collapse Able to keep course 180° turn away from the collapsed side	Yes	A Yes Yes
possible in 10 s Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	
<u>Trim speed spin tendency</u> Spin occurs	<u>.</u>	No
<u>Low speed spin tendency</u> Spin occurs	<u>.</u>	<b>A</b> No
	Stops spinning in less than 90°	A Stops spinning in less than 90° No
Recovery from a developed spin Spin rotation angle after release Cascade occurs	Stops spinning in less than 90° No A	Stops spinning in less than 90°
Recovery from a developed spin Spin rotation angle after release Cascade occurs B-line stall Change of course before release Behaviour before release Recovery	Stops spinning in less than 90° No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s	Stops spinning in less than 90° No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s
Recovery from a developed spin Spin rotation angle after release Cascade occurs B-line stall Change of course before release Behaviour before release	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°	Stops spinning in less than 90° No A Changing course less than 45° Remains stable with straight span
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	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	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
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         Recovery         Dive forward angle on exit	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°	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
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         Recovery         Dive forward angle on exit         Cascade occurs         Big ears         Entry procedure         Behaviour during big ears         Recovery         Dive forward angle on exit         Recovery         Dive forward angle on exit         Recovery         Dive forward angle on exit         Big ears in accelerated flight         Entry procedure         Behaviour during big ears	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° A Dedicated controls Stable flight	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° A Dedicated controls Stable flight
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         Recovery         Dive forward angle on exit         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         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	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° A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight	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° A Dedicated controls

No other flight procedure or configuration described in the user's manual