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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013 & NfL 2-565-20

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Manufacturer NOVA Vertriebsgesellschaft m.b.H.		Certification number	PG_1959.2022		
Address Auweg 14 6124 Terfens Austria		Flight test	2	21.03.2022	
Glider model Mentor 7-light XS		Classification	E	В	
Serial number 500504		Representative	Ν	None	
Trimmer no		Place of test	V	Villeneuve	
Folding lines used	no				
Test pilot		Philippe Dupont	C	Claude Thurnheer	
Harness		Advance - Success 4 M	Α	Advance - Success 4 M	
Harness to risers distance (cm)		44	4	44	
		40	-		
Distance between ris	. ,			44	
Total weight in flight	(Kg)	70	9	95	
1. Inflation/Take-off		В			
Rising behaviour		Easy rising, some pilot correction is required	В	Easy rising, some pilot correction is required	В
Special take off technique r	equired	No	А	No	А
2. Landing		Α			
Special landing technique r	equired	No	А	No	А
3. Speed in straight flight		В			
Trim speed more than 30 k	m/h	Yes	А	Yes	А
Speed range using the cont	trols larger than 10 km/h	Yes	А	Yes	А
Minimum speed		25 km/h to 30 km/h	В	25 km/h to 30 km/h	В
4. Control movement		Α			
Max. weight in flight up to	9 80 kg				
Symmetric control pressure	/ travel	Increasing / greater than 55 cm	А	not available	0
Max. weight in flight 80 kg	g to 100 kg				
Symmetric control pressure	/ travel	not available	0	Increasing / greater than 60 cm	А
Max. weight in flight great	ter than 100 kg				
Symmetric control pressure	/ travel	not available	0	not available	0
5. Pitch stability exiting a	ccelerated flight	Α			
Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	Α
Collapse occurs		No	А	No	А
6. Pitch stability operating controls during accelerated flight		Α			
Collapse occurs		No	A	No	A
7. Roll stability and damp	ing	A			
Oscillations		Reducing	А	Reducing	A
8. Stability in gentle spira		Α			
Tendency to return to straig		Spontaneous exit	A	Spontaneous exit	A
9. Behaviour exiting a full	• • •	B			-
Initial response of glider (fin		Immediate reduction of rate of turn	A	No immediate reaction	B
Tendency to return to straig	int flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	A	Spontaneous exit (g force decreasing, rate of turn decreasing)	A
Turn angle to recover normal flight		720° to 1 080°, spontaneous	в	720° to 1 080°, spontaneous	В
Turn angle to recover norm		recovery		recovery	

Approximately 30 % chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping	A	Dive forward 30° to 60° Keeping	В
	course	~	course	D
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
At least 50% chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	А
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
With accelerator				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	А
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	А	Yes	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Change of course	Changing course less than 45°	А	Changing course less than 45°	А
Cascade occurs	No	А	No	А
12. High angle of attack recovery	Α			
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	А	No	А
13. Recovery from a developed full stall	Α			
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	А
Dive forward angle on exit Collapse	Dive forward 0° to 30° No collapse	A A	No collapse	А
Dive forward angle on exit Collapse Cascade occurs (other than collapses)	Dive forward 0° to 30° No collapse No	A A	No collapse No	A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back	Dive forward 0° to 30° No collapse No Less than 45°	A A A	No collapse No Less than 45°	A A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension	Dive forward 0° to 30° No collapse No Less than 45° Most lines tight	A A	No collapse No	A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse	Dive forward 0° to 30° No collapse No Less than 45°	A A A	No collapse No Less than 45°	A A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse	Dive forward 0° to 30° No collapse No Less than 45° Most lines tight B	A A A	No collapse No Less than 45° Most lines tight	A A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle	Dive forward 0° to 30° No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15°	A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 15° to 45°	A A A A
 Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour 	Dive forward 0° to 30° No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation	A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation	A A A A
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 Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour 	Dive forward 0° to 30° No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation	A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation	A A A A
 Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course 	Dive forward 0° to 30° No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous	A A A A A A	No collapse No Less than 45° Most lines tight 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	A A A A A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse 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	 Dive forward 0° to 30° No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re-inflation) 	A A A A A A A	No collapse No Less than 45° Most lines tight 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 reinflation)	A A A A A A A
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Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse 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 Cascade occurs	 Dive forward 0° to 30° No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No 	A A A A A A A A A A A	No collapse No Less than 45° Most lines tight 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 reinflation) No	A A A A A A A A A A
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 Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse 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 Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Twist occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour 	 Dive forward 0° to 30° No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No Spontaneous re-inflation 	A A A A A A A A A A A	No collapse No Less than 45° Most lines tight 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 reinflation) No No No No 90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation	A A A A A A A A A A A A
 Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse 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 Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle 	Dive forward 0° to 30° No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No 90° to 180° / Dive or roll angle 15° to 45°	A A A A A A A A A A A B	No collapse No Less than 45° Most lines tight 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 reinflation) No No No	A A A A A A A A A A A B
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 Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse 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 Cascade occurs Folding lines used Large asymmetric collapse 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 Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course until re-inflation / Maximum dive forward or roll angle 	Dive forward 0° to 30° No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No No No No No No No No No No	A A A A A A A A A A A A A A A A A A A	No collapse No Less than 45° Most lines tight 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 reinflation) No No No 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	A A A A A A A A A A A A A A A A A A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse 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 Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Change of course until re-inflation / Maximum dive forward or roll angle	 Dive forward 0° to 30° No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No 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 reinflation) No Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) 	A A A A A A A A A A A A A A A A A A A	No collapse No Less than 45° Most lines tight 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 reinflation) No No No No No No No No No No No No No	A A A A A A A A A A A A A A A A A A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Small asymmetric collapse 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 Cascade occurs Folding lines used Large asymmetric collapse 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	 Dive forward 0° to 30° No collapse No Less than 45° Most lines tight B Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No 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 reinflation) No No (or only a small number of collapsed cells with a spontaneous reinflation) No (or only a small number of collapsed cells with a spontaneous reinflation) No (or only a small number of collapsed cells with a spontaneous reinflation) No (or only a small number of collapsed cells with a spontaneous reinflation) No (or only a small number of collapsed cells with a spontaneous reinflation) No (or only a small number of collapsed cells with a spontaneous reinflation) No (or only a small number of collapsed cells with a spontaneous reinflation) No (or only a small number of collapsed cells with a spontaneous reinflation) 	A A A A A A A A A A A A A A A A	No collapse No Less than 45° Most lines tight 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 reinflation) No No 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 reinflation)	A A A A A A A A A A A A A A A

Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	Less than 90° / Dive or roll angle 15° to 45°	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No	Α	No	А
15. Directional control with a maintained asymmetric	Α			
collapse				
Able to keep course	Yes	A	Yes	A
180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	A
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	A	More than 50 % of the symmetric control travel	A
16. Trim speed spin tendency	A			
Spin occurs	No	А	No	А
17. Low speed spin tendency	A			7.
Spin occurs	No	А	No	А
•				
18. Recovery from a developed spin	Α			
18. Recovery from a developed spin Spin rotation angle after release	A Stops spinning in less than 90°	А	Stops spinning in less than 90°	А
Spin rotation angle after release	Stops spinning in less than 90°	A A	Stops spinning in less than 90° No	A A
Spin rotation angle after release	Stops spinning in less than 90° No	A A	Stops spinning in less than 90° No	A A
Spin rotation angle after release Cascade occurs 19. B-line stall	Stops spinning in less than 90° No 0	A		A
Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release	Stops spinning in less than 90° No 0 not available		No not available	
Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release	Stops spinning in less than 90° No 0 not available not available	A 0 0	No not available not available	A 0 0
Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery	Stops spinning in less than 90° No 0 not available not available not available	A 0 0	No not available not available not available	A 0 0 0
Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit	Stops spinning in less than 90° No 0 not available not available not available not available	A 0 0 0	No not available not available not available not available	A 0 0 0 0
Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs	Stops spinning in less than 90° No 0 not available not available not available not available not available	A 0 0	No not available not available not available	A 0 0 0
Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears	Stops spinning in less than 90° No 0 not available not available not available not available A	A 0 0 0 0	No not available not available not available not available not available	A 0 0 0 0
Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure	Stops spinning in less than 90° No 0 not available not available not available not available not available A Dedicated controls	A 0 0 0 0 0	No not available not available not available not available not available Dedicated controls	A 0 0 0 0 0 0
Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure Behaviour during big ears	Stops spinning in less than 90° No 0 not available not available not available not available not available A Dedicated controls Stable flight	A 0 0 0 0 0 0	No not available not available not available not available not available Dedicated controls Stable flight	A 0 0 0 0 0 0 4 A
Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure Behaviour during big ears Recovery	Stops spinning in less than 90° No 0 not available not available not available not available not available A Dedicated controls	A 0 0 0 0 0 0	No not available not available not available not available not available Dedicated controls Stable flight Spontaneous in less than 3 s	A 0 0 0 0 0 0 0
Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit	Stops spinning in less than 90° No 0 not available not available not available not available not available A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A 0 0 0 0 0 0	No not available not available not available not available not available Dedicated controls Stable flight	A 0 0 0 0 0 0 4 A
Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight	Stops spinning in less than 90° No 0 not available not available not available not available not available Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A 0 0 0 0 0 0 0 0 0 0	No not available not available not available not available not available Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A 0 0 0 0 0 0
Spin rotation angle after releaseCascade occurs19. B-line stallChange of course before releaseBehaviour before releaseRecoveryDive forward angle on exitCascade occurs20. Big earsEntry procedureBehaviour during big earsRecoveryDive forward angle on exit21. Big ears in accelerated flightEntry procedure	Stops spinning in less than 90° No 0 not available not available not available not available not available Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Dedicated controls	A 0 0 0 0 0 0 0 0 0 0	No not available not available not available not available not available Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls	A 0 0 0 0 0 0 0 0
Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears	Stops spinning in less than 90° No 0 not available not available not available not available not available not available Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Dedicated controls Stable flight	A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	No not available not available not available not available not available not available Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight	A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Spin rotation angle after release Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery	Stops spinning in less than 90° No 0 not available not available not available not available not available not available 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	A 0 0 0 0 0 0 0 0 0 0	No not available not available not available not available not available not available Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Spontaneous in less than 3 s	A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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Big ears done by B3