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AIR TURQUOISE SA certified by

## Flight test report: EN

Trimmer



Manufacturer **MCC Aviation SA** Certification number PG 0500.2011 Address La Tuilière Date of flight test 28. 10. 2011 1091 Grandvaux Switzerland Place of test Representative None Villeneuve Glider model Orbea evo XS Classification В

Test pilot Fukuoka Seiko Thurnheer Claude Harness Sup'Air - Altiplume S Sky Paragliders - Axel II M Total weight in flight (kg) 58 1. Inflation/Take-off Rising behaviour Smooth, easy and constant rising A Smooth, easy and constant rising Α Special take off technique required Α Α 2. Landing Α Special landing technique required Nο Α No Α 3. Speed in straight flight Α Trim speed more than 30 km/h Yes Yes Α Speed range using the controls larger than 10 km/h Yes Α Minimum speed Less than 25 km/h Less than 25 km/h 4. Control movement Α Max. weight in flight up to 80 kg Symmetric control pressure / travel Increasing / greater than 55 cm Increasing / greater than 55 cm Α Α Max. weight in flight 80 kg to 100 kg Symmetric control pressure / travel not available n 0 not available Max. weight in flight greater than 100 kg Symmetric control pressure / travel not available 0 not available 0 5. Pitch stability exiting accelerated flight Α Dive forward angle on exit Dive forward less than 30° Α Dive forward less than 30° Α Collapse occurs Α No 6. Pitch stability operating controls during accelerated flight Collapse occurs Nο Α No Α 7. Roll stability and damping Α Oscillations Reducing Reducing 8. Stability in gentle spirals Α Tendency to return to straight flight Spontaneous exit Spontaneous exit Α В 9. Behaviour in a steeply banked turn More than 14 m/s В Sink rate after two turns More than 14 m/s 10. Symmetric front collapse Α Entry Rocking back less than 45° Rocking back less than 45° Α Spontaneous in less than 3 s Spontaneous in less than 3 s Α Recovery Dive forward angle on exit / Change of course Dive forward 0° to 30° / Keeping Α Dive forward 0° to 30° / Keeping Α course course Cascade occurs No Α No With accelerator Entry Α Rocking back less than 45° Rocking back less than 45° Recovery Spontaneous in less than 3 s Spontaneous in less than 3 s

	Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
Deep stall achieved	Cascade occurs	No	Α	No	Α
Recovery   Dive forward 0" to 30"	11. Exiting deep stall (parachutal stall)	A			
Dive forward of 19 a001	Deep stall achieved	Yes	Α	Yes	Α
Dive forward of 19 a001	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Changing course less than 45° / Cascade occurs         A Cascade occurs         A No	Dive forward angle on exit		Α		Α
Cascade occurs         No         A         No         A         1.         1.         1.         1.         1.         1.         1.         1.         1.         1.         1.         1.         1.         1.         1.         1.         2.         1.         2.         1.         2.         1.         2.         1.         1.         2.         1.         1.         2.         1.         2.         1.         1.         2.         1.         3.         1.         1.         3.         1.		Changing course less than 45°	Α	Changing course less than 45°	Α
Name					
Recovery         Spontaneous in less than 3 s         A         Spontaneous in less than 3 s         A           Cascade occurs         No         A         No         A           21. Recovery from a developed full stall         A           Dive forward angle on exit         Dive forward 0°t to 30°         A         No         Collapse         A         No         Collapse         A         No         Collapse         A           Collapse on the opposite side occurs (other than collapses)         No         Less than 45°         A         No         A         No         A           Recording back         Less than 45°         A         No         A         No         A         Less than 45°         A         Less than 45°         A         Less than 50° (Deve or coll angle or coll angle or coll angle or course until re-inflation / Maximum dive forward or coll angle or 15°         Less than 90° / Dive or roll angle or 15°         A         Less than 360° / Dive or roll angle or 15°         A         Less than 360° / Dive or roll angle or 15°         A         Less than 360° / Dive or roll angle or 15°         A         No         A<			, ,		•
Casacade occurs         No         A         No         A           13. Recovery from a developed full stall         A           10. bive forward only one and eveloped full stall         A           Collapse         No collapse         A         No collapse         A           Collapse         No         No         A         No collapse         A           Rocking back         Less than 45"         A         Less than 45"         A           Line tension         Most lines tight         A         Less than 45"         A           Line tension         Less than 50°         A         Less than 50°         Developed Tull 4.0         A           Line tension         Less than 50°         Less than 50°         Developed Tull 4.0         A         Less than 90° / Dive or roll angle 0° 10 10 10 10 10 10 10 10 10 10 10 10 10			Α	Spontaneous in less than 3 s	Α
10   Necessary from a developed full stall   Dive forward on the 30°   A   Dive forward on 10° 10° 30°   A   Dive forward on 10° 10° 30°   A   Caccade occurs (other than collapses)   No   No   A   No   No   A   No   No	•	·		•	
Dive forward angle on exit					, ,
Collapse Course (other than collapses)         No collapses         A No collapses         A No collapses         A Cascade occurs (other than collapses)         No Cascade occurs (other than collapses)         No Cascade occurs (other than collapses)         A Less than 45°         A Less than 45°         A Last than 45° </td <td></td> <td></td> <td>Α</td> <td>Dive forward 0° to 30°</td> <td>Α</td>			Α	Dive forward 0° to 30°	Α
Cascade occurs (other than collapses)         No         Less than 45°         A         Less than 45°         A         Less than 45°         A         A           Rocking back         Less than 45°         A         Less than 45°         A         Less than 50°         A           14. Asymmetric collapse         B           With 50% collapse           Change of course until re-inflation / Maximum dive forward or roll angle of ourse         Less than 360°         A         Less than 360° / Dive or roll angle of 15°         A         Less than 360° / Dive or roll angle of 15°         A         Less than 360° / Dive or roll angle of 200 course         A         No         A         No         A         Calcased occurs         No         A         No         A         Cass than 360° / Dive or roll angle of 200 course         A         No         A         Cass than 360° / Dive or roll angle of 200 course until re-inflation / Maximum dive forward or roll angle of 200 course         Less than 90° / Dive or roll angle of 15°         A         Less than 90° / Dive or roll angle of 200 course         A         Less than 360°         A         Less than 360° / Dive or roll angle of 200 course         A         Less than 360° / Dive or roll angle of 200 course         A         No         A         No         A         A         Less than 360° / Dive or roll angle of 200 course         A					
Rocking back					
Line tension         Most lines tight         A. Asymmetric collapse         A. Asymmetric collapse         A. Asymmetric collapse           Change of course until re-inflation / Maximum dive forward or langle of langle         Cless than 90° / Dive or roll angle of to 15° collapse         A. Less than 90° / Dive or roll angle of to 15° collapse on the opposite side occurs         A. Cless than 360° and to 15° collapse on the opposite side occurs         A. No         A. No         A. Cascade occurs         A. Spontaneous re-inflation occurs         A. No         A. Cascade occurs         A. Cascade occurs         A. No         A. Cascade occurs         A. Cascade occurs         A. No         A. Cascade occurs         A. No					
Asymmetric collapse         B           With 50% collapse         Cleas than 90° / Dive or roll angle of 15°					
With 50% collapse         Change of course until re-inflation / Maximum dive forward or langle of in 15°         Less than 90° / Dive or roll angle to 15°         A Less than 90° / Dive or roll angle to 15°         A consequence or course until re-inflation (a for 15°)         A consequence or course         A consequence or course until re-inflation or Maximum dive forward or roll angle or course		· ·	А	Most lines tight	A
Change of course until re-inflation / Maximum dive forward or for langle of course (Re-inflation behaviour)         Less than 90° / Dive or roll angle of 50° to 15° so 15° s	·	В			
roll angle         0° to 15°         to 15°         to 15°           Re-inflation behaviour         Spontaneous re-inflation         A         Spontaneous re-inflation         A           Total change of course         Less than 360°         A         No         A           Collapse on the opposite side occurs         No         A         No         A           Cascade occurs         No         A         No         A           With 75% collapse         V         V         No         A         Less than 90° / Dive or roll angle 15° to 45°         A           Re-inflation behaviour         Spontaneous re-inflation         A         Less than 360°         A         Less than 360°         A           Re-inflation behaviour         Spontaneous re-inflation         A         Less than 360°         A         Less than 360°         A           Re-inflation behaviour         No         A         No         A         No         A           Towns occurs         No         A         No         A         No         A           Cascade occurs         No         A         No         A         Less than 90° / Dive or roll angle 70° 15° 15° 10 45°         A         Less than 90° / Dive or roll angle 70° 15° 15° 10 45°         A         Le	,	Lass than 00° / Division and language	۸	Lace their 00° / Dive on rell areas 0°	^
Re-inflation behaviour Total change of course Less than 360° No			А		А
Total change of course	<u> </u>		Α		Α
Collapse on the opposite side occurs No No No A No No A No No A No No A No No No No No No No A No A No A No Collapse on the opposite side occurs No No A No A No Collapse on the opposite side occurs No No A No A No Collapse and accelerator  Change of course until re-inflation / Maximum dive forward or poil angle Of to 15° No No A No No A No No A No No No A No		•		·	
Twist occurs         No         A         No         A           Cascade occurs         No         A         No         A           With 75% collapse         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         A         Spontaneous re-inflation         A           Collapse of course         No         A         No         A           Collapse on the opposite side occurs         No         A         No         A           Ciliapse on the opposite side occurs         No         A         No         A           Cascade occurs         No         A         No         A           Cascade occurs         No         A         No         A           Change of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle of course         Less than 90° / Dive or roll angle of 15° to 45°         Less than 360°         A         Less than 90° / Dive or roll angle of 15° to 45°         A         Less than 360°         A         Less than 360°         A         Less than 360°         A         Less than 360°         A         No	-				
Cascade occurs     No     A     No     A       With 75% collapse     Change of course until re-inflation / Maximum dive forward or lorl langle of rol 15°     Less than 90° / Dive or roll angle of 15° to 45°     A     Less than 90° / Dive or roll angle of 15° to 45°     A       Re-inflation behaviour     Spontaneous re-inflation     A     Spontaneous re-inflation     A       Total change of course     Less than 360°     A     Less than 360°     A       Collapse on the opposite side occurs     No     A     No     A       Twist occurs     No     A     No     A       Cascade occurs     No     A     No     A       Cascade occurs     No     A     No     A       With 50% collapse and accelerator     Less than 90° / Dive or roll angle of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation / Maximum dive forward or roll angle of course     A     Less than 90° / Dive or roll angle 15° to 45°     A       Re-inflation behaviour     Spontaneous re-inflation     A     No     A     No       Cascade occurs     No     A     No     No     A       With 75% collapse and accelerator     No     A     No     No     A       Change of course until re-inflation / Maximum dive forward or roll angle for roll angle or roll angle or roll angle or roll angle or roll a					
With 75% collapse       Less than 90° / Dive or roll angle of course until re-inflation / Maximum dive forward or 0° to 15°       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       A       Spontaneous re-inflation       A         Total change of course       Less than 360°       A       Less than 360°       A         Collapse on the opposite side occurs       No       A       No       A         Twist occurs       No       A       No       A         Cascade occurs       No       A       No       A         With 50% collapse and accelerator       Less than 90° / Dive or roll angle of course until re-inflation / Maximum dive forward or 10l angle of course       Less than 360°       A       Less than 90° / Dive or roll angle 15° to 45°       A         Re-inflation behaviour       Spontaneous re-inflation       A       Spontaneous re-inflation       A       Less than 360° / Dive or roll angle 15° to 45°       A         Collapse on the opposite side occurs       No       A       No       A       Less than 360°       A       Less than 360°       A       No       A         Change of course until re-inflation / Maximum dive forward or 10l angle of to 15° to 45°       Spontaneous re-inflation       A					
Change of course until re-inflation / Maximum dive forward or roll angle of the roll angle of the solution of roll angle of the solution of the		140	^	NO	^
roll angle         0° to 15°         15° to 45°           Re-inflation behaviour         Spontaneous re-inflation         A         Spontaneous re-inflation         A           Total change of course         Less than 360°         A         No         A           Collapse on the opposite side occurs         No         A         No         A           Twist occurs         No         A         No         A           Cascade occurs         No         A         No         A           With 50% collapse and accelerator         Less than 90° / Dive or roll angle of course until re-inflation / Maximum dive forward or lot 15°         Less than 90° / Dive or roll angle of 15° to 45°         A           Re-inflation behaviour         Spontaneous re-inflation         A         Less than 90° / Dive or roll angle of 15° to 45°         A           Re-inflation behaviour         Spontaneous re-inflation         A         Less than 360°         A           Collapse on the opposite side occurs         No         A         No         A           Cascade occurs         No         A         No         A           Cascade occurs         No         A         No         A           Cascade occurs         No         A         No         A	•	Loop than 00° / Divo or roll angle	۸	Long than 00° / Divo or roll angle	۸
Total change of course Less than 360° A Less than 360° A No			А	15° to 45°	А
Collapse on the opposite side occurs  No No A No No A No No A No No A No Cascade occurs No No A No A No A No A No A No A Cascade occurs No No A	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Twist occurs No No A No No A No No A No No A No A With 50% collapse and accelerator  Change of course until re-inflation / Maximum dive forward or roll angle O° to 15° to 15° to 45°  Re-inflation behaviour Spontaneous re-inflation A Less than 90° / Dive or roll angle O° to 15° to 45°  Collapse on the opposite side occurs No A Less than 360° A No A N	Total change of course	Less than 360°	Α	Less than 360°	Α
Cascade occurs       No       A       No       A         With 50% collapse and accelerator       Change of course until re-inflation / Maximum dive forward or roll angle of to 15°       Less than 90° / Dive or roll angle of 15° to 45°       A       Less than 90° / Dive or roll angle of 15° to 45°       A       Less than 90° / Dive or roll angle of 15° to 45°       A       Spontaneous re-inflation       A       Spontaneous re-inflation       A       A       Collapse on the opposite side occurs       A       No       A       No       A       A       No       A       A       No       A       A       With 75% collapse on the opposite side occurs       No       A       No       A       No       A       A       With 75% collapse and accelerator       A       No       A       No       A       A       No       A       A       With 75% collapse and accelerator       B       Donation 15°       B       B       Donation 15°       Donation 15°       B       Donation 15°       Donation 1	Collapse on the opposite side occurs	No	Α	No	Α
With 50% collapse and accelerator         Change of course until re-inflation / Maximum dive forward or roll angle roll angle       Less than 90° / Dive or roll angle of 15° to 45°       A Less than 90° / Dive or roll angle 15° to 45°       A Less than 90° / Dive or roll angle 15° to 45°       A Less than 90° / Dive or roll angle 15° to 45°       A Spontaneous re-inflation       A Spontaneous re-inflation       A Less than 360°       A Less than 360°       A Less than 360°       A No       A N	Twist occurs	No	Α	No	Α
Change of course until re-inflation / Maximum dive forward or roll angle (° to 15° / Dive or roll angle (° to 15° / To 45°)  Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Spontaneous re-inflation A Spontaneous re-inflation A Less than 360° A Less than 360° A Less than 360° A Less than 360° A Spontaneous re-inflation A Collapse on the opposite side occurs No A	Cascade occurs	No	Α	No	Α
roll angle Re-inflation behaviour Re-inflation behaviour Roull change of course Less than 360° Roull change of course Roull change of course Roull change of course Roull change of the opposite side occurs Roul change of course Roull change of course Roull change of course Roull change of course Roull change of course until re-inflation / Maximum dive forward or roll angle of to 15° to 180° / Dive or roll angle of to 15° Re-inflation behaviour Roul change of course	With 50% collapse and accelerator				
Total change of course Less than 360° A Less than 360° A No Collapse on the opposite side occurs No No A No A No Cascade occurs No No A No A No Cascade occurs No With 75% collapse and accelerator Change of course until re-inflation / Maximum dive forward or roll angle No Consumer of course until re-inflation / Maximum dive forward or roll angle No Collapse on the opposite side occurs No Cascade occurs No Cascade occurs No A Coscade occurs No A No	•		Α		Α
Total change of course  Less than 360° A Less than 360° A Less than 360° A Collapse on the opposite side occurs No No No A No Cascade occurs No No No A No	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Collapse on the opposite side occurs  No No No A No	Total change of course	•	Α	Less than 360°	Α
Twist occurs  No  No  No  A  No  No  A  No  A  No  A  No  A  Cascade occurs  No  No  No  No  No  A  No  No	Collapse on the opposite side occurs	No	Α	No	Α
Cascade occurs  With 75% collapse and accelerator  Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour  Spontaneous re-inflation  A Spontaneous re-inflation  A Spontaneous re-inflation  A Spontaneous re-inflation  A Collapse on the opposite side occurs  No  No  A No  Cascade occurs  No  No  A No  15. Directional control with a maintained asymmetric collapse  Able to keep course  Yes  A Yes  A More than 50 % of the symmetric  A			Α		
With 75% collapse and accelerator  Change of course until re-inflation / Maximum dive forward or roll angle of to 15° and to 15° be to 15° be to 45°  Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Collapse on the opposite side occurs No A No A No A Cascade occurs No A No A No A Cascade occurs No A No A No A Cascade occurs A No A No A No A No A Cascade occurs No A No					
Change of course until re-inflation / Maximum dive forward or roll angle 15° to 180° / Dive or roll angle 0° to 45°  Re-inflation behaviour  Spontaneous re-inflation  A Spontaneous re-inflation  A Spontaneous re-inflation  A Collapse on the opposite side occurs  No  No  No  A No  A No  A No  Cascade occurs  No  A No					
Re-inflation behaviour  Spontaneous re-inflation A Spontaneous re-inflation A Less than 360° A Less than 360° A Less than 360° A Collapse on the opposite side occurs No A	Change of course until re-inflation / Maximum dive forward or		Α		В
Total change of course  Less than 360°  A Less than 360°  A No  A No  A No  A No  Cascade occurs  No  No  A No  A No  A No  A No  A No  A Scade occurs  No  A No	-				
Collapse on the opposite side occurs  No A No A No A No A No A No A Cascade occurs No A No A No A No A Twist occurs No A No		•	Α	·	
Twist occurs  No A No	-		Α		Α
Cascade occurs  No A No A No A No A  15. Directional control with a maintained asymmetric collapse  Able to keep course Yes A 180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin More than 50 % of the A More than 50 % of the symmetric A			Α		Α
15. Directional control with a maintained asymmetric collapse     A       Able to keep course     Yes     A       A Yes     A       180° turn away from the collapsed side possible in 10 s     Yes     A       Amount of control range between turn and stall or spin     More than 50 % of the     A     More than 50 % of the symmetric     A	Twist occurs	No	Α		Α
collapse  Able to keep course  Yes  A Yes  A 180° turn away from the collapsed side possible in 10 s  Amount of control range between turn and stall or spin  More than 50 % of the  A More than 50 % of the symmetric  A			Α	No	Α
180° turn away from the collapsed side possible in 10 s  Yes  A Yes  A More than 50 % of the symmetric  A More than 50 % of the symmetric		Α			
Amount of control range between turn and stall or spin More than 50 % of the A More than 50 % of the symmetric A	Able to keep course	Yes	Α	Yes	Α
	180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
symmetric control travel control travel	Amount of control range between turn and stall or spin		Α		Α
		symmetric control travel		control travel	

Spin occurs         No         A         No         A           17. Low speed spin tendency         A         No         A           Spin occurs         No         A         No         A           18. Recovery from a developed spin         A         Stops spinning in less than 90° and 98 der release         A         No         A         No         A           19. Bline stall         A         No         A         No         A         No         A           Change of course before release         Changing course less than 45° and C	16. Trim speed spin tendency	Α			
Spin occurs   No   A   No   A   No   A   No   A   No   No	Spin occurs	No	Α	No	Α
18. Recovery from a developed spin   Spin rotation angle after release   Stops spinning in less than 90°   A Stops spinning in less than 90°   A No   A Dedicated controls   A No   A No	17. Low speed spin tendency	Α			
Spin rotation angle after release   Stops spinning in less than 90°   A   Cascade occurs   No	Spin occurs	No	Α	No	Α
Cascade occurs   No   No   No   No   No   No   No   N	18. Recovery from a developed spin	Α			
19. B-line stall   Change of course before release   Changing course less than 45°   A   A   Changing course less than 45°   A   A   Changing course less than 35°   A   Dive forward 0° to 30°   A   Dive forward	Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
Change of course before release Remains stable with straight span Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward 0 release Remains stable with straight span Recovery Spontaneous in less than 3 s A Dive forward 0 re to 30 a A Dive forward 0 re to	Cascade occurs	No	Α	No	Α
Behaviour before release         Remains stable with straight span         A         Remains stable with straight span         A           Recovery         Spontaneous in less than 3 s pan         A         Spontaneous in less than 3 s pan         A           Dive forward angle on exit         Dive forward 0" to 30" pan         A         Dive forward 0" to 30" pan         A           20. Big ears         B         B         B         Benay pan         B           Entry procedure         Dedicated controls         A         Dedicated controls         A           Behaviour during big ears         Stable flight         A         Stable flight         A           Recovery         Spontaneous in 3 s to 5 s         B         Recovery through pilot action in less than a further 3 s         B           Dive forward angle on exit         Dive forward 0" to 30"         A         Dive forward 0" to 30"         A           21. Big ears in accelerated flight         B         B         C         Dedicated controls         A           Behaviour during big ears         Stable flight         A         Dedicated controls         A           Recovery         Recovery through pilot action in less than a further 3 s         Behaviour immediately after releasing the accelerator while maintaining big ears         A         Dive forward 0" to 30" <td>19. B-line stall</td> <td>Α</td> <td></td> <td></td> <td></td>	19. B-line stall	Α			
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward 0° to 30° A Dedicated controls A Dedicated controls A Stable flight A Dedicated controls A Dedicated controls A Stable flight A Dive forward 0° to 30° A Dedicated controls A De	Change of course before release	Changing course less than 45°	Α	Changing course less than 45°	Α
Dive forward angle on exit Cascade occurs No No A	Behaviour before release	S S S S S S S S S S S S S S S S S S S	Α	Remains stable with straight span	Α
Cascade occurs     No     A     No     A       20. Big ears     B     Entry procedure     Dedicated controls     A     Dedicated controls     A       Behaviour during big ears     Stable flight     A     Stable flight     A     Stable flight     A       Recovery     Spontaneous in 3 s to 5 s     B     Recovery through pilot action in less than a further 3 s     B       Dive forward angle on exit     Dive forward 0° to 30°     A     Dive forward 0° to 30°     A     Dive forward 0° to 30°     A       21. Big ears in accelerated flight     B     B     Entry procedure     Dedicated controls     A     Dedicated controls     A       Behaviour during big ears     Stable flight     A     Stable flight     A       Recovery     Recovery through pilot action in less than a further 3 s     B     Recovery through pilot action in less than a further 3 s     B       Dive forward angle on exit     Dive forward 0° to 30°     A     Dive forward 0° to 30°     A       Behaviour immediately after releasing the accelerator while maintaining big ears     A     Dive forward 0° to 30°     A     Dive forward 0° to 30°     A       2. Behaviour exiting a steep spiral     A     A     Stable flight     A     Stable flight     A       Turn angle to recover normal flight     Spontaneou	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Behaviour during big ears Both gears Both gears Behaviour during big ears Behaviour during big ears Both gears Both gight Both gight Both gears Both gears Both gight Both gears in accelerated flight Both gears in accelerated flight Both gears in accelerated flight Both gears Both gears Both gears in accelerated flight Both gears	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Entry procedure Dedicated controls A Dedicated controls A Behaviour during big ears Stable flight A Dive forward or to 30° A Dive forward 0° to 30° A Dedicated controls A Dive forward 0° to 30° A D	Cascade occurs	No	Α	No	Α
Behaviour during big ears  Stable flight A Stable flight A Recovery  Spontaneous in 3 s to 5 s B Recovery through pilot action in less than a further 3 s B Poive forward one to 30° A Dive forward one to 30° A Dedicated controls A Dedicated controls A Stable flight A Stabl	20. Big ears	В			
Recovery       Spontaneous in 3 s to 5 s       B       Recovery through pilot action in less than a further 3 s       B         Dive forward angle on exit       Dive forward 0° to 30°       A       Dive forward 0° to 30°       A         21. Big ears in accelerated flight       B         Entry procedure       Dedicated controls       A       Dedicated controls       A         Behaviour during big ears       Stable flight       A       Stable flight       A         Recovery       Recovery through pilot action in less than a further 3 s       B       Recovery through pilot action in less than a further 3 s       B         Dive forward angle on exit       Dive forward 0° to 30°       A       Dive forward a further 3 s       B         Dive forward angle on exit       Dive forward 0° to 30°       A       Dive forward a further 3 s       B         Dive forward angle on exit       Dive forward 0° to 30°       A       Dive forward 0° to 30°       A         Dive forward o° to 30°       A       Dive forward 0° to 30°       A       Dive forward 0° to 30°       A         Dive forward o° to 30°       A       A       Stable flight       A         Descrictage on exit       A       A       Stable flight       A         Dive forward o° to 30°       A       A	Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Dive forward angle on exit  Dive forward 0° to 30° o A Dive forward 0° to 30° A Dive forward 0° to 30° A  21. Big ears in accelerated flight  B  Entry procedure  Dedicated controls  Stable flight  A Stable flig	Behaviour during big ears	Stable flight	Α	Stable flight	Α
21. Big ears in accelerated flight       B         Entry procedure       Dedicated controls       A       Dedicated controls       A         Behaviour during big ears       Stable flight       A       Stable flight       A         Recovery       Recovery through pilot action in less than a further 3 s       Be Recovery through pilot action in less than a further 3 s       Be Recovery through pilot action in less than a further 3 s       Be Recovery through pilot action in less than a further 3 s       Be Recovery through pilot action in less than a further 3 s       Be Recovery through pilot action in less than a further 3 s       Be Recovery through pilot action in less than a further 3 s       Be Recovery through pilot action in less than a further 3 s       Be Recovery through pilot action in less than a further 3 s       Be Recovery through pilot action in less than a further 3 s       Be Recovery through pilot action in less than a further 3 s       Be recovery through pilot action in less than a further 3 s       Be recovery through pilot action in less than a further 3 s       Be recovery through pilot action in less than a further 3 s       Be recovery through pilot action in less than a further 3 s       Be recovery through pilot action in less than a further 3 s       A       Dive forward 0° to 30°       A       A       Stable flight       A       Less than 720°, spontaneous exit       A       Less than 720°, spon	Recovery	Spontaneous in 3 s to 5 s	В		В
Entry procedure  Dedicated controls A Dedicated controls A Behaviour during big ears Stable flight A Recovery Recovery through pilot action in less than a further 3 s Dive forward angle on exit Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears  22. Behaviour exiting a steep spiral A Tendency to return to straight flight Spontaneous exit A Spontaneous exit A Spontaneous exit A Less than 720°, spontaneous recovery Sink rate when evaluating spiral stability [m/s] 17 16 23. Alternative means of directional control A Stall or spin occurs No A Yes A Yes A Stall or spin occurs  No A Yes A No A Stall or spin occurs Procedure works as described not available O not available O not available O acscade occurs O described in the user's manual  Procedures uitable for novice pilots O acscade occurs O described to the star pilot  A Dedicated controls A Stable flight A Stable flight A Stable flight A Dive forward 0° to 30° A Dive forward 0°	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Behaviour during big ears  Recovery Recovery through pilot action in less than a further 3 s Dive forward angle on exit Dive forward 0° to 30° Dive forward 0° t	21. Big ears in accelerated flight	В			
Recovery through pilot action in less than a further 3 s  Dive forward angle on exit  Dive forward 0° to 30°  A Stable flight  A Stable flig	Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Dive forward angle on exit  Dive forward 0° to 30°  A Stable flight  A Stable f	Behaviour during big ears	Stable flight	Α	Stable flight	Α
Behaviour immediately after releasing the accelerator while maintaining big ears  22. Behaviour exiting a steep spiral  A  Tendency to return to straight flight  Spontaneous exit  A  Spontaneous exit  A  Less than 720°, spontaneous recovery  Sink rate when evaluating spiral stability [m/s]  17  16  23. Alternative means of directional control  A  Stable flight  A  Spontaneous exit  A  Less than 720°, spontaneous recovery  In the series of directional control  A  Stable flight  A  Spontaneous exit  A  Less than 720°, spontaneous recovery  In the series of directional control  A  180° turn achievable in 20 s  No  A  No  A  Stall or spin occurs  No  A  No  A  A  Ves  A  Stall or spin occurs  No  A  No  A  24. Any other flight procedure and/or configuration described in the user's manual  Procedure works as described  not available  not available  o not available	Recovery		В		В
maintaining big ears  22. Behaviour exiting a steep spiral  Tendency to return to straight flight  Spontaneous exit  A Spontaneous exit  A Less than 720°, spontaneous recovery  Sink rate when evaluating spiral stability [m/s]  17  16  23. Alternative means of directional control  ASStall or spin occurs  No  A Yes  A Yes  A Stall or spin occurs  No  A No  A No  A No  Cat. Any other flight procedure and/or configuration described in the user's manual  Procedure works as described  Procedure suitable for novice pilots  Cascade occurs  not available  o not available	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Tendency to return to straight flight  Spontaneous exit  A Spontaneous exit  A Less than 720°, spontaneous recovery  Sink rate when evaluating spiral stability [m/s]  17  16  23. Alternative means of directional control  180° turn achievable in 20 s  Stall or spin occurs  No  A Yes  A Yes  A Stall or spin occurs  No  A No  24. Any other flight procedure and/or configuration described in the user's manual  Procedure works as described  not available  not available  o Spontaneous exit  A Spontaneous exit  A Less than 720°, spontaneous recovery  A Less than 720°, spontaneous exit		Stable flight	Α	Stable flight	Α
Turn angle to recover normal flight  Less than 720°, spontaneous recovery  Sink rate when evaluating spiral stability [m/s]  17  16  23. Alternative means of directional control  A  180° turn achievable in 20 s  Stall or spin occurs  No  A  24. Any other flight procedure and/or configuration described in the user's manual  Procedure works as described  not available  not available  not available  o second occurs  cascade occurs  o not available	22. Behaviour exiting a steep spiral	Α			
recovery  Sink rate when evaluating spiral stability [m/s]  23. Alternative means of directional control  A  180° turn achievable in 20 s  Stall or spin occurs  No  No  A  24. Any other flight procedure and/or configuration described in the user's manual  Procedure works as described  not available  not available  o not available	Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
23. Alternative means of directional control  180° turn achievable in 20 s  Yes  A  Yes  A  Yes  A  Stall or spin occurs  No  A  24. Any other flight procedure and/or configuration described in the user's manual  Procedure works as described  not available  o  rot available  o  not available	Turn angle to recover normal flight		Α		Α
180° turn achievable in 20 s Yes A Yes A Stall or spin occurs No A No A No A 24. Any other flight procedure and/or configuration described in the user's manual Procedure works as described not available O not available O not available O cascade occurs not available O not available O not available O second occurs O not available	Sink rate when evaluating spiral stability [m/s]	17		16	
Stall or spin occurs  No A No A No A 24. Any other flight procedure and/or configuration described in the user's manual  Procedure works as described  not available  not available  o scacade occurs  not available  o not available	23. Alternative means of directional control	Α			
24. Any other flight procedure and/or configuration described in the user's manual     0       Procedure works as described     not available     0 not available     0       Procedure suitable for novice pilots     not available     0 not available     0       Cascade occurs     not available     0 not available     0       25. Comments of test pilot	180° turn achievable in 20 s	Yes	Α	Yes	Α
described in the user's manual  Procedure works as described  Procedure suitable for novice pilots  Cascade occurs  not available  not available  0 not available  0 not available  0 not available  0  25. Comments of test pilot	Stall or spin occurs	No	Α	No	Α
Procedure suitable for novice pilots not available 0 not available 0 Cascade occurs not available 0 not available 0 not available 0 25. Comments of test pilot		0			
Cascade occurs not available 0 not available 0  25. Comments of test pilot	Procedure works as described	not available	0	not available	0
25. Comments of test pilot	Procedure suitable for novice pilots	not available	0	not available	0
	Cascade occurs	not available	0	not available	0
Comments	25. Comments of test pilot				
	Comments				