para-test.com paragliding by air turquoise

Ozone Gliders

PG_0408.2011

AIR TURQUOISE SA certified by



Flight test report: EN

Manufacturer

Recovery

Manalaotaroi				10_0+00.2011	
Address	2, Queens Drive LA46LN . UK	Date of flight test		29. 03. 2011	
Representative	Ogden Russell	Place of test		Villeneuve	
Glider model	Speedster 28	Classification		С	
Trimmer	yes: closed				
miner	ycs. 000cu				
		-			
		Thurnheer Claude		Zoller Alain	
	Harness	Niviuk Gliders - Hamak M		Gin Gliders - Gingo 2 L	
	Total weight in flight (kg)	95		125	
1. Inflation/Take-off		Α			
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
Special take off technique r	required	No	А	No	А
2. Landing		Α			
Special landing technique r	required	No	А	No	А
3. Speed in straight flight		В			
Trim speed more than 30 k		Yes	А	Yes	А
Speed range using the con	trols larger than 10 km/h	Yes	А	Yes	А
Minimum speed		Less than 25 km/h	А	25 km/h to 30 km/h	В
4. Control movement		С			
Max. weight in flight up to 8					
Symmetric control pressure		not available	0	not available	0
Max. weight in flight 80 kg t					
Symmetric control pressure		Increasing / greater than 60 cm	А	not available	0
Max. weight in flight greate					
Symmetric control pressure		not available	0	Increasing / 50 cm to 65 cm	С
5. Pitch stability exiting a	ccelerated flight	Α			
Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	A
Collapse occurs		No	А	No	Α
6. Pitch stability operating flight	g controls during accelerated	Α			
Collapse occurs		No	А	No	А
7. Roll stability and damp	ing	Α			
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle spira	ls	Α			
Tendency to return to straig	ght flight	Spontaneous exit	А	Spontaneous exit	А
9. Behaviour in a steeply	banked turn	В			
Sink rate after two turns		12 m/s to 14 m/s	А	More than 14 m/s	В
10. Symmetric front colla	pse	В			
Entry		Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery		Spontaneous in less than 3 s	А	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	Α
With accelerator					
Entry		Rocking back less than 45°	А	Rocking back less than 45°	А

Spontaneous in 3 s to 5 s

Certification number

А

B Spontaneous in less than 3 s

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
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	В			
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 30° to 60°	В
Collapse	No collapse	А	No collapse	А
Cascade occurs (other than collapses)	No	А	No	А
Rocking back	Less than 45°	А	Less than 45°	А
Line tension	Most lines tight	А	Most lines tight	А
14. Asymmetric collapse	С			
With 50% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15° $$	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	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 75% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 45° to 60°	С	180° to 360° / Dive or roll angle 45° to 60°	С
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	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 50% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	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	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 75% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 45° to 60°	С	90° to 180° / Dive or roll angle 60° to 90°	С
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	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
15. Directional control with a maintained asymmetric collapse	Α			
Able to keep course	Yes	А	Yes	А
180° turn away from the collapsed side possible in 10 s	Yes	А	Yes	А
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

Spin occursNoANoA17. Low speed spin tendencyA18. Recovery from a developed spinNoANoA18. Recovery from a developed spinAStops spinning in less than 90°AStops spinning in less than 90°A19. Beline stallANoANoA19. Beline stallAChanging course less than 45°ARemains stable with straightABehaviour before releaseChanging course less than 45°ARemains stable with straight spinARecoverySpontaneous in less than 35°ASpontaneous in less than 35°ADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°AObe forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°A20. Big ersASpontaneous in less than 35ASpontaneous in less than 35ABehaviour during big ersSpontaneous in less than 35ASpontaneous in less than 35ABehaviour during big ersSpontaneous in less than 35ASpontaneous in less than 35ABehaviour during big ersDive forward 0° to 30°ADive forward 0° to 30°ADive forward 0° to 30°ADive forward 0° to 30°ASpontaneous in less than 35ABehaviour during big ersBehaviour do' to 30°ASpontaneous in less than 35ABehaviour during big ersBehaviour do' to 30°ASpontaneous in less than 35A	16. Trim speed spin tendency	Α			
Spin occursNoANoANoA10. Recovery from a developed spinASpin rotation angle after releaseStops spinning in less than 90°ANoA10. Baline stallAChange of course before releaseChanging ocurse less than 45°ARemains stable with straight spanABehaviour before releaseRemains stable with straight spanARemains stable with straight spanADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ADive forward 0° to 30°A20. Big earsAEntry procedureDedicated controlsADive forward 0° to 30°ABehaviour daning big earsStable flightAStable flightAStable flightARecoverySpontaneous in less than 3 sADive forward 0° to 30°ADive forward 0° to 30°ADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ADive forward 0° to 30°A21. Big ears in accelerated flightAStable flightAStable flightA22. Behaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sA21. Big ears in accelerated flightADeve forward 0° to 30°ADive forward 0° to 30°A22. Behaviour during big earsStable flightASpontaneous in less than 3 sABehaviour during b	Spin occurs	No	А	No	А
18. Recovery from a developed spinASpin rotation angle after releaseStops spinning in less than 90°AStops spinning in less than 90°ACascade occursNoANoACascade occursNoANoAB	17. Low speed spin tendency	Α			
Spin rotation angle after releaseStops spinning in less than 90° NoAStops spinning in less than 90° AA19. B-line stallANoA19. B-line stallAChange of course before releaseChanging course less than 45° spanAChanging course less than 45° AAChanging course less than 45° AAChanging course less than 45° AARemains stable with straight spanARemains stable with straight span AARecoverySpontaneous in less than 3 s AASpontaneous in less than 3 s AANoA20. Big ersADive forward 0° to 30° AANoANoABehaviour during big earsADedicated controls AAStable flightARecoverySpontaneous in less than 3 s AASpontaneous in less than 3 s AASpontaneous in less than 3 s AABehaviour during big earsADedicated controlsADedicated controlsARecoverySpontaneous in less than 3 s AASpontaneous in less than 3 s AASpontaneous in less than 3 s AADive forward angle on exitDevide forward 0° to 30°ADive forward 0° to 30°AA21. Big ears in acceleratof flightADive forward 0° to 30°ADive forward 0° to 30°A22. Behaviour uning big earsStable flightAStable flightAARecoverySpontaneous in less than 3 s AStable flight <td>Spin occurs</td> <td>No</td> <td>А</td> <td>No</td> <td>А</td>	Spin occurs	No	А	No	А
Cascade occursNoANoA19. Brine stallAChange of course before releaseChanging ocurse less than 45"ABehaviour before releaseRemains stable with straight spanARemains stable with straight spanARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sAChange of oon 2000 (10.00)ADive forward 0 to 30"ANoANoAA20. Big earsATowe forward 0 to 30"ANoAEntry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightASpontaneous in less than 3 sA21. Big earsADive forward 0 to 30"ADive forward 0 to 30"A21. Big ears in accelerated flightASpontaneous in less than 3 sASpontaneous in less than 3 sA21. Big ears in accelerated flightADedicated controlsADive forward 0" to 30"A21. Big ears in accelerated flightADive forward 0" to 30"ADive forward 0" to 30"ABehaviour during big earsSpontaneous in less than 3 sASpontaneous in less than 3 sABehaviour during big earsSpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0" to 30"ADive forward 0" to 30"ABehaviour during big earsSpontaneous in less than 3 sASpontaneous in less than 3 s<	18. Recovery from a developed spin	А			
19. B-line stall A Change of course before release Changing course less than 45° A Changing course less than 45° A Behaviour before release Remains stable with straight span A Remains stable with straight span A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Spontaneous in less than 3 s A Oive forward ong on exit Dive forward 0° to 30° A No A No A 20. Big ears A Entry procedure Dedicated controls A Spontaneous in less than 3 s A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Behaviour during big ears Stable flight A Stable flight A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Behaviour during big ears Stable flight A Stable flight A <t< td=""><td>Spin rotation angle after release</td><td>Stops spinning in less than 90$^\circ$</td><td>А</td><td>Stops spinning in less than 90°</td><td>А</td></t<>	Spin rotation angle after release	Stops spinning in less than 90 $^\circ$	А	Stops spinning in less than 90°	А
Change of course before releaseChanging course less than 45° Apanins stable with straight spanAChanging course less than 45° AABehaviour before releaseRecoverySpontaneous in less than 3 s Dive forward angle on exitASpontaneous in less than 3 s Dive forward 0 to 30°ASpontaneous in less than 3 s AASpontaneous in less than 3 s AADive forward 0 to 30°ADive forward 0 to 30°ADive forward 0 to 30°ADive forward 0 to 30°ASpontaneous in less than 3 s AASpontaneous in less than 3 s AAASpontaneous in less than 3 s AASpontaneous in less than 3 s A<	Cascade occurs	No	А	No	А
Behaviour before releaseRemains stable with straight, spanARemains stable with straight, spanARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitNoANoA20. Big ersAEEEntry procedureDedicated controlsADedicated controlsABehaviour duing big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0 to 30°ADedicated controlsA21. Big ears in accelerated flightAEdicated controlsAEntry procedureDedicated control to 30°ADive forward 0 to 30°A21. Big ears in accelerated flightAEdicated controlsABehaviour during big earsStable flightASpontaneous in less than 3 sABehaviour during big earsSpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0 to 30°ADive forward 0 to 30°ABehaviour unimediately after releasing the accelerator while Behaviour immediately after releasing the accelerator while Behaviour immediate	19. B-line stall	Α			
RecoverySpanASpontaneous in less than 3 sADive forward angle on exitDive forward 0* to 30°ANoA20. Big earsAANoA20. Big earsAADedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°A21. Big ears in accelerated flightAHHHEntry procedureDedicated controlsASpontaneous in less than 3 sABehaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sABehaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0* to 30°AABehaviour during big earsStable flightAStable flightARecoverySpontaneous exitASpontaneous in less than 3 sADive forward angle on exitDive forward 0* to 30°AStable flightARecoverySpontaneous exitASpontaneous exitAStable flightAStable flightAStable flightA </td <td>Change of course before release</td> <td>Changing course less than 45°</td> <td>А</td> <td>Changing course less than 45°</td> <td>А</td>	Change of course before release	Changing course less than 45°	А	Changing course less than 45°	А
Dive forward or to 30°ADive forward 0° to 30°ACascade occursNoANoA20. Big earsAEntry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sADive forward 0° to 30°ADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°A21. Big ears in accelerated flightAHHHEntry procedureDedicated controlsADive forward 0° to 30°A21. Big ears in accelerated flightAHHHEntry procedureDedicated controlsADive forward 0° to 30°ABehaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sADive forward 0° to 30°ADive forward angle on exitDive forward 0° to 30°ASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°AStable flightARecoverySpontaneous in less than 3 sASpontaneous exit as a stable flightADive forward angle on exitDive forward 0° to 30°ASpontaneous exit as a spontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ASpontaneous exit as a spontaneous exit as a spontaneous exit as a spontaneous in less than 3 sADive forward ang	Behaviour before release	U	A	Remains stable with straight span	A
Cascade occursNoANoA20. Big earsAEntry procedureDedicated controlsABehaviour during big earsStable flightAStable flightABehaviour during big earsStable flightABehaviour during big earsStable flightABenaviour during big earsStable flightABehaviour during big earsStable flightADive forward angle on exitDive forward 0° to 30°A21. Big ears in accelerated flightAEntry procedureDedicated controlsABehaviour during big earsStable flightARecoverySpontaneous in less than 3 sABehaviour during big earsStable flightARecoverySpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ABehaviour during big earsDive forward 0° to 30°ADive forward angle on exitDive forward 0° to 30°ABehaviour unimediately after releasing the accelerator whileStable flightAStable flightSpontaneous exitAStable flightAIt mangle to recover normal flightLess than 720°, spontaneous recoveryAStable releasing the accelerator whileLess than 720°, spontaneous recoveryAStable releasing the accelerator whileStable flightALess than 720°, spontaneous recoverySink rate when evaluating spiral stability [m/s]18ZZZ <td>Recovery</td> <td>Spontaneous in less than 3 s</td> <td>Α</td> <td>Spontaneous in less than 3 s</td> <td>А</td>	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	А
AANNN	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	А
Entry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°A21. Big ears in accelerated flightAADedicated controlsADedicated controlsA21. Big earsDedicated controlsADedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightAARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator while maintaining big earsStable flightAStable flightA22. Behaviour exiting a steep spiralALess than 720°, spontaneous exitASpontaneous exitATurn angle to recover normal flightLess than 720°, spontaneous recoveryAStable flight procedure and/or configuration recoveryAVesA33. Alternative means of directional controlASpontaneous exitAStable flight procedure and/or configuration described in the user's manualAVesAProcedure works as describedYesAYesAYesAProcedure works as describedYesA	Cascade occurs	No	Α	No	А
Behaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward or to 30°ADive forward or to 30°ADive forward or to 30°A21. Big ears in accelerated flightAFFFEntry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward or to 30°ADive forward 0° to 30°ADive forward 0° to 30°ABehaviour during big earsSpontaneous in less than 3 sASpontaneous in less than 3 sADive forward or to 30°ADive forward 0° to 30°ADive forward 0° to 30°ADive forward agle on exitDive forward 0° to 30°AStable flightAStable flightAStable flightAStable flightADive forward or to straight flightSpontaneous exitAStable flightA22. Behaviour exiting a steep spiralALess than 720°, spontaneous exitALess than 720°, spontaneous recoveryASink rate when evaluating spiral stability [m/s]18222223. Alternative means of directional controlANoA2Atternative means of directional controlANoA2Atternative mea	20. Big ears	А			
RecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward on exitDive forward 0° to 30°ADive forward 0° to 30°A21. Big ears in accelerated flightAEEntry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator while maintaining big earsStable flightAStable flightA22. Behaviour exiting a steep spiral Turn angle to recover normal flightASpontaneous exitASpontaneous exitA180° turn achievable in 20 sYesAYesAYesA23. Alternative means of directional control described in the user's manual (serving)AYesANoAAny other flight procedure and/or configuration described for novice pilotsYesAYesAYesAProcedure works as describedYesAYesAYesAAProcedure works as describedYesAYesAAAreact works as describedYesAYesAAAreact works as describedYesAYesAAAreact works as describedYesAYesA	Entry procedure	Dedicated controls	Α	Dedicated controls	А
Dive forward on exitDive forward 0° to 30°ADive forward 0° to 30°A21. Big ears in accelerated flightAEntry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward 0° to 30°ADive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator whileStable flightAStable flightA22. Behaviour exiting a steep spiralASpontaneous exitASpontaneous exitATendency to return to straight flightSpontaneous exitASpontaneous exitATurn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryASink rate when evaluating spiral stability [m/s]18222223A180° turn achievable in 20 sYesAYesANoAStall or spin occursNoANoAAAAProcedure works as describedYesAYesAAAProcedure works as describedYesAYesAAAProcedure suitable for novice pilotsYesAYesAAStall or spin occursNoAYesAAProcedure works as describedYesA	Behaviour during big ears	Stable flight	Α	Stable flight	А
21. Big ears in accelerated flightAEntry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator while maintaining big earsStable flightAStable flightA22. Behaviour exiting a steep spiral Tendency to return to straight flightSpontaneous exitASpontaneous exitATurn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryA3180° turn achievable in 20 sYesAYesA24. Any other flight procedure and/or configuration described in the user's manualAYesAProcedure works as describedYesAYesAProcedure suitable for novice pilotsYesAYesAProcedure suitable for novice pilotsYesANoAProcedure suitable for novice pilotsYesANoAProc	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	А
Entry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator while maintaining big earsStable flightAStable flightA22. Behaviour exiting a steep spiralASpontaneous exitASpontaneous exitATendency to return to straight flightSpontaneous exitASpontaneous exitATurn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryASink rate when evaluating spiral stability [m/s]1822222323. Alternative means of directional controlAVesAStall or spin occursNoANoAAury other flight procedure and/or configuration described in the user's manualYesAYesAProcedure works as describedYesAYesASecond AAProcedure suitable for novice pilotsYesANoAA25. Comments of test pilotYesANoAA	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	А
Behaviour during big earsStable flightAStable flightABehaviour during big earsStable flightAStable flightADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator while maintaining big earsStable flightAStable flightA22. Behaviour exiting a steep spiralAFFAStable flightATendency to return to straight flightSpontaneous exitASpontaneous exitALess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryAStable right procedure and/or configuration described in the user's manualYesAYesAProcedure works as describedYesAYesAYesAProcedure suitable for novice pilotsYesAYesAYesA25. Comments of test pilotStable flightAYesAYesA	21. Big ears in accelerated flight	Α			
RecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator while maintaining big earsStable flightAStable flightA22. Behaviour exiting a steep spiralAFFFATendency to return to straight flightSpontaneous exitASpontaneous exitATurn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryASink rate when evaluating spiral stability [m/s]1822222323. Alternative means of directional controlAYesAYesBo° turn achievable in 20 sNoANoAStall or spin occursAYesAYesAProcedure works as describedYesAYesAYesProcedure suitable for novice pilotsYesAYesACascade occursNoANoAA25. Comments of test pilotStable filotANoA	Entry procedure	Dedicated controls	Α	Dedicated controls	А
Dive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator while maintaining big earsStable flightAStable flightA22. Behaviour exiting a steep spiralAAStable flightATendency to return to straight flightSpontaneous exitASpontaneous exitATurn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryA23. Alternative means of directional controlA222223. Alternative means of directional controlAYesA180° turn achievable in 20 sYesANoAStall or spin occursNoANoA24. Any other flight procedure and/or configuration described in the user's manualYesAYesAProcedure works as describedYesAYesAYesAProcedure suitable for novice pilotsYesANoAA25. Comments of test pilotStable for novice pilotsAStable for novice pilotsA	Behaviour during big ears	Stable flight	Α	Stable flight	А
Behaviour immediately after releasing the accelerator while maintaining big earsStable flightAStable flightA22. Behaviour exiting a steep spiral Tendency to return to straight flightASpontaneous exitASpontaneous exitATurn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryASink rate when evaluating spiral stability [m/s]18222223. Alternative means of directional controlAYesA180° turn achievable in 20 sYesAYesAStall or spin occursNoANoA24. Any other flight procedure and/or configuration described in the user's manualYesAYesAProcedure works as describedYesAYesAYesAProcedure suitable for novice pilotsYesAYesAYesACascade occursNoANoAYesAYesA25. Comments of test pilotKest pilotKest pilotKest pilotKest pilotKest pilotKest pilot	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	А
maintaining big earsA22. Behaviour exiting a steep spiralATendency to return to straight flightSpontaneous exitATurn angle to recover normal flightLess than 720°, spontaneousASink rate when evaluating spiral stability [m/s]182223. Alternative means of directional controlA22180° turn achievable in 20 sYesAStall or spin occursNoANo24. Any other flight procedure and/or configuration described in the user's manualAProcedure works as describedYesAProcedure suitable for novice pilotsYesAStall o coursAYesProcedure suitable for novice pilotsYesAProcedure suitable for novice pilotsYesAStall o spin occursNoAProcedure suitable for novice pilotsYesAProcedure suitable for novice pilotsYesAStall or spin occursAYesProcedure suitable for novice pilotsYesAStall or spin occursAYesStall or spin occursAYesStall or spin occursAYesStall or spin occurs <td>Dive forward angle on exit</td> <td>Dive forward 0° to 30°</td> <td>Α</td> <td>Dive forward 0° to 30°</td> <td>А</td>	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	А
Tendency to return to straight flightSpontaneous exitASpontaneous exitATurn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryASink rate when evaluating spiral stability [m/s]182223. Alternative means of directional controlA22180° turn achievable in 20 sYesAYesStall or spin occursNoANoA24. Any other flight procedure and/or configuration described in the user's manualAYesAProcedure works as describedYesAYesAProcedure suitable for novice pilotsYesAYesACascade occursNoANoA25. Comments of test pilotLess than 720°, spontaneous test pilotANoA		Stable flight	A	Stable flight	A
Turn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryASink rate when evaluating spiral stability [m/s]182223. Alternative means of directional controlA22180° turn achievable in 20 sYesAYesAStall or spin occursNoANoA24. Any other flight procedure and/or configuration described in the user's manualAYesAProcedure works as describedYesAYesAProcedure suitable for novice pilotsYesAYesACascade occursNoANoA25. Comments of test pilotKesKesKesKes	22. Behaviour exiting a steep spiral	А			
recoveryrecoverySink rate when evaluating spiral stability [m/s]182223. Alternative means of directional controlAYesA180° turn achievable in 20 sYesAYesAStall or spin occursNoANoA24. Any other flight procedure and/or configuration described in the user's manualAYesAProcedure works as describedYesAYesAProcedure suitable for novice pilotsYesAYesACascade occursNoANoASt. Comments of test pilotSt. St. St. St. St. St. St. St. St. St.	Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	А
23. Alternative means of directional controlA180° turn achievable in 20 sYesAYesAStall or spin occursNoANoA24. Any other flight procedure and/or configuration described in the user's manualAYesAProcedure works as describedYesAYesAProcedure suitable for novice pilotsYesAYesACascade occursNoANoA25. Comments of test pilotKesKesKesKes	Turn angle to recover normal flight		A		А
180° turn achievable in 20 sYesAYesAStall or spin occursNoANoA24. Any other flight procedure and/or configuration described in the user's manualASecond Second Secon	Sink rate when evaluating spiral stability [m/s]	18		22	
Stall or spin occursNoANoA24. Any other flight procedure and/or configuration described in the user's manualASecond Second Seco	23. Alternative means of directional control	А			
24. Any other flight procedure and/or configuration described in the user's manualAProcedure works as describedYesAYesAProcedure suitable for novice pilotsYesAYesACascade occursNoANoA25. Comments of test pilotKesKesKesKes	180° turn achievable in 20 s	Yes	Α	Yes	А
described in the user's manualYesAYesAProcedure works as describedYesAYesAProcedure suitable for novice pilotsYesAYesACascade occursNoANoA25. Comments of test pilotKesKesKesKes	Stall or spin occurs	No	Α	No	А
Procedure suitable for novice pilotsYesAYesACascade occursNoANoA25. Comments of test pilot	24. Any other flight procedure and/or configuration described in the user's manual	Α			
Cascade occurs No A No A 25. Comments of test pilot A A A	Procedure works as described	Yes	А	Yes	А
25. Comments of test pilot	Procedure suitable for novice pilots	Yes	А	Yes	А
	Cascade occurs	No	А	No	А
Comments	25. Comments of test pilot				
	Comments				