

Inspection record for motorized paragliders Wing unit initial inspection

EAPR e.V - Marktstr. 11 - D-87730 Bad Grönenbach - Germany

applicant	Swing									
wing unit	Scorpic	24	MTOW 124		55 kg	type test number		serial number	Proto	
manufacturer	Swing		trimmer ja			accelerator	ja			
motor	Fresh E	DIEEZE ODUILIX	type test number			serial number				
propeller	Helix C	arbon	pitch							
harness	Fresh Breeze Sportix		suspension		tief, vertikal variabel		maximum allowable total flying weight		150 kg	
test pilot	Anselm Rauh		test location		Wildberg		date	20.10.2011		
the wing unit is		not suita	not suitable		for students training flights					

1. test of launch				
special launch technique required	Yes			
	Trimmer closed for starting			
altitude gain after 300 meters > 15 meters	Yes			
2. test of landing				
special landing technique required	No			
soft landing on pilots feet possible / soft landing on wheels possible (for paratrike)	Yes, special technique required (e.g. flaring, specific position of trimmers)			
	Trimmer closed, flair			
3. test of trim speed in straight flight				
altitude gain after 300 meters > 15 meters	> 30 km/h			
4. braking characteristics in accelerated flight without engine thrust				
execution	excluded corresponding to user guide			

turning from the axis of flight >15° after each change of load	No				
canopy collapses	No				
parachutal stall or stall is happening	No.				
pitch damping	pitch oscillations decreasing significantl				
6. test of roll handling with thrust					
horizontal figure "8" in less than 30 sec.	Yes				
flat spin tendency	No				
instable flight behavior, twist during change of direction	N				
7. test of roll stability					
behavior in roll movements and roll damping	rolling decreases significantly				
8. test of roll stability in straight flight					
rolling in straight flight	rolling <10°				
9. test of spin tendency using minimal brake input					
turning against the torque of the motor at 25% brake possible	yes, 180° in 10sec possible				
0. test of stall at maximum motor thrust					
brake travel in cm, braking force	>40cm, constant or increasing				
tendency to enter parachutal stall	No				
movement around yaw axis	<10°				
1. test of recovery to normal flight from high angles of attack					
followed by cascade	No				
termination	yes, termination when thrust of motor is released				
	Under full throttel deap stall possible. High shooting on exit by throttling the engine				
2. test of assymetric collapse with trimmers closed and no use of speed sy	ystem				
execution	not possible				

13. test of assymetric collapse with trimmers fully open and full use of speed system					
execution	not possible				
14. test of symmetric collapse with trimmers closed					
execution	not possible				
15. test of symmetric collapse with trimmers open and eventual full use of speed system					
execution	not possible				
16 test of behavior of the paraglider in spiral dive					
behavior of the paraglider when entering the manoeuvre	paraglider increases bank angle and sink rate continuously with increasing pull on the brake line				
tendency to finish the turn and to return to level flight when exiting the manoeuvre	less than 720°, return to normal flight without pil ot input				
behavior of the paraglider when exiting the manoeuvre	the energy when exiting the spiral dive must be reduced gradually by the pilot, because strong pendulum movements could occure followed by a collapse of the canopy				
remarks					
not suitable					
Rollen klingt langsam ab					

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