

Job number B16038
Checked by James Summe
Date 29/07/2019

/lanufacturer	MacPara
Slider	Elan 2
Size	26
Serial	3326-2110

Summary of line measure and retrim

Your wing was originally out of the manufactures specification. Loops have been added at the maillions to improve the trim of your glider and bring it back into specification. You may find that the glider now flies faster and comes up quicker on launch. Both brakes have also been adjusted back into the manufactures specification

Your glider

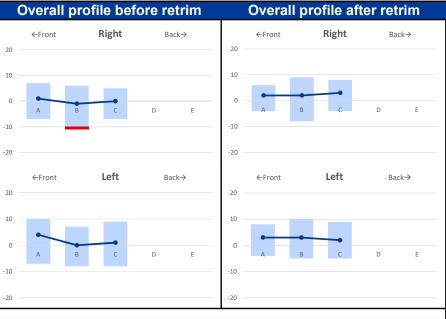
Explanation of the graphs

The bars on the graphs summarise the range of variances from specification. The top of the bar corresponds to the maximum, and the bottom to the minimum. The scale shows from 20mm long to -20mm short. Shorter bars are better.

Manufacturers stipulate a tolerance of ±10mm against specified lengths. Any variance in excess of this is shown in red in the bars on the right.

In each graph, the leftmost bar relates to the first line tab row at the front of the wing, and the last relates to the one closest to the trailing edge.

The solid line shows the average variance of all lines in that tab row, and shows how the profile of the wing from front to back has been affected by the variances. A flatter line is better.



Summary of loops on maillons before and after retrim

All lines have been measured using a laser measure and compared to the manufacturer's line length specification. Any anomalies outside tolerance (±10mm) are normally addressed by changing the loops at the maillons. Exceptionally loops in the upper cascade can be changed or lines replaced, either of which would be noted in the report above. The tables below show the maillon loops before and after retrimming, and any required trim changes made are highlighted. The pictures below the tables show the different types of loop used.

Before		Le	eft		Right							
Deloie	4	3	2	1	1	2	3	4				
Α		DL	DL	DL	DL	DL	DL					
В		DL	DL	DL	DL	DL	DL					
С		DL	DL	DL	DL	DL	DL					
D												
E												
S				DL	DL							

After		Le	eft			Ri	ght	
After A B C D E S	4	3	2	1	1	2	3	4
Α		LF	LF	LF	LF	LF	DL	
В		DL	DL	LF	LF	DL	DL	
С		DL	LF	DL	DL	DL	DL	
D								
E								
S				DL	DL			











							-28mm Brakes overall vs lineset					r retrim Left 23mm		Ri	ght	Adju	sted?	
Lineset overall after retrim vs specification				18mm		Yes												
Specified line lengths						Left variances								Right v	Right variances			
	Α	В	С	D	Е	Brakes	Α	В	С	D	Е	Brakes	Α	В	С	D	Е	Brakes
1	7394	7312	7430			7785	4	2	1			-13	3	3	5			-12
2	7349	7266	7378			7480	1	5	2			-12	3	3	3			-6
3	7349	7271	7439			7390	4	5	1			-8	4	6	5			-6
4	7248	7173	7362			7250	4	2	4			-8	5	4	8			-5
5	7296	7223	7269			7230	6	5	-3			-9	5	6	3			-6
6	7154	7089	7290			7100	1	2	7			-11	1	0	8			-12
7	6982	6925	7338			6995	4	1	3			-12	3	1	6			-13
8	6901	6858	7156			6940	8	9	0			-15	6	6	0			-12
9	6898	6865	6976			6980	7	10	1			-12	4	9	1			-9
10	6525	6491	6879			6895	-4	-3	8			16	-4	-3	8			16
11	6430	6467	6872			6760	-3	-5	9			16	-3	-7	4			14
12	6397	6407	6562			6775	3	-3	-4			17	-3	-8	-4			17
13			6462			6675			-5			15			-3			14
14						6630						15						14
15						6725						14						12
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