



Service documents



01-07-2017

SERVICE MANUAL

The latest version of service manual is available at:
www.dudek.eu/en/service-and-inspections/

TECHNICAL INSPECTIONS

Full inspection is recommended every 12 months, if not advised otherwise by the inspecting person (according to current paraglider condition).

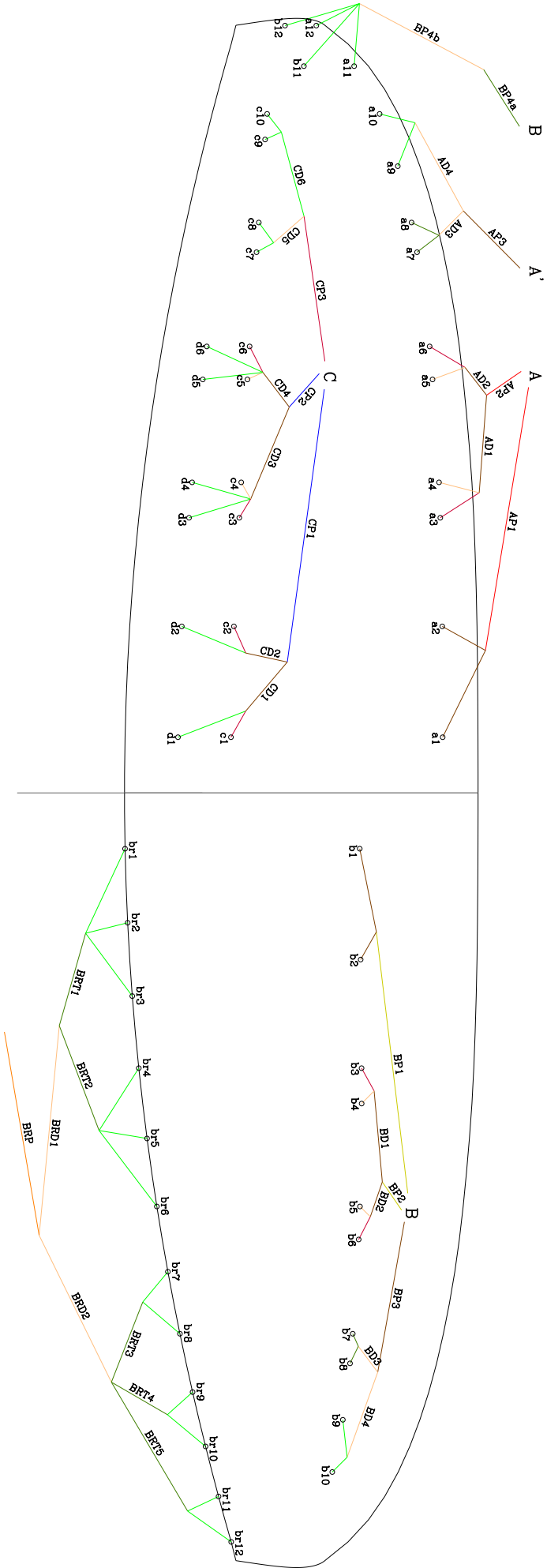
Due to small number of suspension lines and their significant load a check is advised every 60 flight hours, and a replacement every 100 hours.

Technical inspection is carried out by the manufacturer or authorised distributor (trained for inspections).

TECHNICAL DATA

Optic 2	22	24	26	28	30
Certification	-	EN B	EN B	EN B	-
	-	LTF B	LTF B	LTF B	-
Number of cells	51	51	51	51	51
Surface area (flat) [m ²]	22,00	24,00	26,00	28,20	30,40
Surface area (projected) [m ²]	18,81	20,52	22,23	24,12	26,00
Span (flat) [m]	11,00	11,49	11,96	12,45	12,93
Span (projected) [m]	8,79	9,18	9,56	9,95	10,33
Aspect Ratio (flat)	5,50				
Aspect Ratio (projected)	4,10				
Sink rate [m/s]	min = 1,0 +- 0,1m/s				
Speed [km/h]	trim = 37; max = 51 +- 2km/h				
Max. cord [mm]	2488,00	2599,00	2705,00	2817,00	2925,00
Min. cord [mm]	629,00	657,00	683,00	712,00	739,00
Distance pilot to wing [m]	6,82	7,13	7,42	7,72	8,02
Total line length [m]	229,40	240,00	250,17	260,91	271,24
Weight range EN [kg]	60-75	70-90	85-105	100-120	115-140
Weight [kg]	4,74	5,05	5,37	5,71	6,01
Lines	Edelrid A-8000U: 050 & 070 & 090 & 130 & 190; 7343-280; Liros TSL 90 & 190				
Fabric	Porcher 38 g/m ² & Dominico tex 34 g/m ²				
	Porcher Hard 40 g/m ²				
	SR Scrim, SR Laminate 180 g/m ²				
Risers	PASAMON - Bydgoszcz, Poland				

Lining scheme



Length of the lines

Optic 2 - 24

The tables / Tables / Tabele:

The individual lengths and type of line

La longueur et le type de chaque ligne

Długości i rodzaj poszczególnych linek

	a	b	c	d	br
1	2093	1953	665	791	1686
2	2061	1919	658	779	1418
3	619	572	700	816	1294
4	571	523	646	759	1311
5	544	494	678	775	1241
6	576	531	710	790	1330
7	522	493	437		705
8	459	436	365		602
9	678	645	374		594
10	668	642	361		582
11	910	875			483
12	755	792			502

The total lengths

Longueur des suspentes

Sumaryczna długość linek

	a	b	c	d	br
1	7044	6946	7085	7219	7484
2	7010	6914	7053	7181	7215
3	7035	6931	7063	7191	7090
4	6993	6888	7016	7135	6985
5	6971	6871	6985	7086	6913
6	6998	6903	7014	7103	7001
7	6885	6826	6946		6831
8	6823	6771	6880		6730
9	6740	6698	6759		6663
10	6730	6695	6746		6652
11	6507	6474			6633
12	6351	6389			6649

	AD	BD	CD	DD	BRT
1	1496	1449	1305		1272
2	1499	1461	1279		1147
3	968	946	1308		1453
4	663	661	1244		1395
5			1052		1473
6			916		

Technora A 8000U-050:

XXXX

Technora A 8000U-070:

XXXX

Technora A 8000U-090:

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Technora A 8000U-130:

XXXX

Technora A 8000U-190:

XXXX

Technora 7343-280:

XXXX

Technora TSL 90:

XXXX

Technora TSL 190:

XXXX

	AP	BP	CP	DP	BRD
1	4471	4514	4663		2024
2	4464	4453	4607		2173
3	4927	4920	4991		
4b		4305			
4a		800			

BRP 2470

Total suspension lines length, measured from the lower surface of the canopy to the inside edge of the maillon (tolerancy +/- 10 mm)

Length of the lines

Optic 2 - 26

The tables / Tables / Tabele:

The individual lengths and type of line

La longueur et le type de chaque ligne

Długości i rodzaj poszczególnych linek

	a	b	c	d	br
1	2177	2031	691	823	1755
2	2145	1998	684	810	1476
3	644	595	728	849	1348
4	594	544	672	790	1363
5	566	514	705	806	1292
6	599	552	739	822	1385
7	543	513	454		734
8	477	453	379		627
9	706	671	389		618
10	695	668	375		606
11	947	911			502
12	785	823			522

The total lengths

Longueur des suspentes

Sumaryczna długość linek

	a	b	c	d	br
1	7349	7236	7379	7511	7817
2	7319	7202	7343	7473	7539
3	7352	7227	7360	7486	7409
4	7308	7179	7306	7429	7300
5	7278	7162	7282	7378	7228
6	7310	7203	7306	7395	7321
7	7196	7124	7244		7139
8	7135	7071	7170		7031
9	7040	6987	7043		6966
10	7030	6982	7029		6955
11	6776	6739			6930
12	6613	6653			6951

	AD	BD	CD	DD	BRT
1	1556	1506	1356		1322
2	1559	1520	1331		1194
3	1012	989	1360		1511
4	690	688	1294		1452
5			1095		1534
6			953		

Technora A 8000U-050: XXXX

Technora A 8000U-070: XXXX

Technora A 8000U-090: XXXX

Technora A 8000U-130: XXXX

Technora A 8000U-190: XXXX

	AP	BP	CP	DP	BRD
1	4691	4721	4870		2105
2	4691	4665	4815		2263
3	5173	5156	5224		
4b		4539			
4a		800			

Technora 7343-280: XXXX

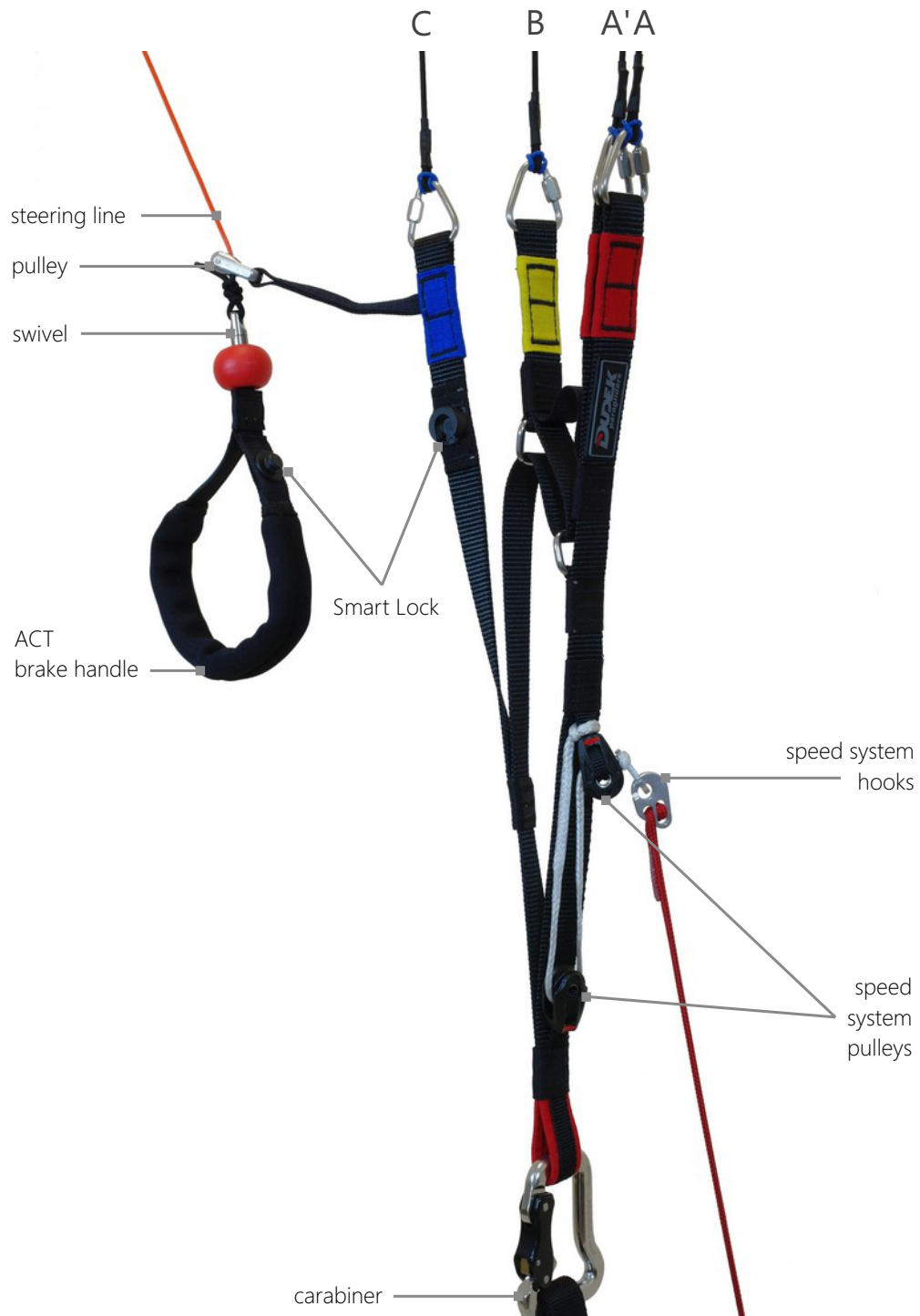
Technora TSL 90: XXXX

BRP 2605

Technora TSL 190: XXXX

Total suspension lines length, measured from the lower surface of the canopy to the inside edge of the maillon (tolerancy +/- 10 mm)

Optic 2 risers



Other informations:

- number of risers: 3 (with A riser split into A and A')
- trimmers: no

Speed system influence on the aerofoil

Neutral risers position

Slowest speed,
minimum sink.
Launch configuration.



Neutral risers' length:

A - 510

A' - 510

B - 510

C - 510

Full speed

Increased speed,
increased sink.



Speed system size & : 24, 26

A - 390

A' - 390

B - 430

C - 510

Speed system size & :

A -

A' -

B -

C -

* lengths of the risers incl. quicklinks, length tolerance +/- 5mm



