



Service documents



12-2017

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 24 months or every 150 hours whatever comes first, if not advised otherwise by the inspecting person due to paraglider's condition.

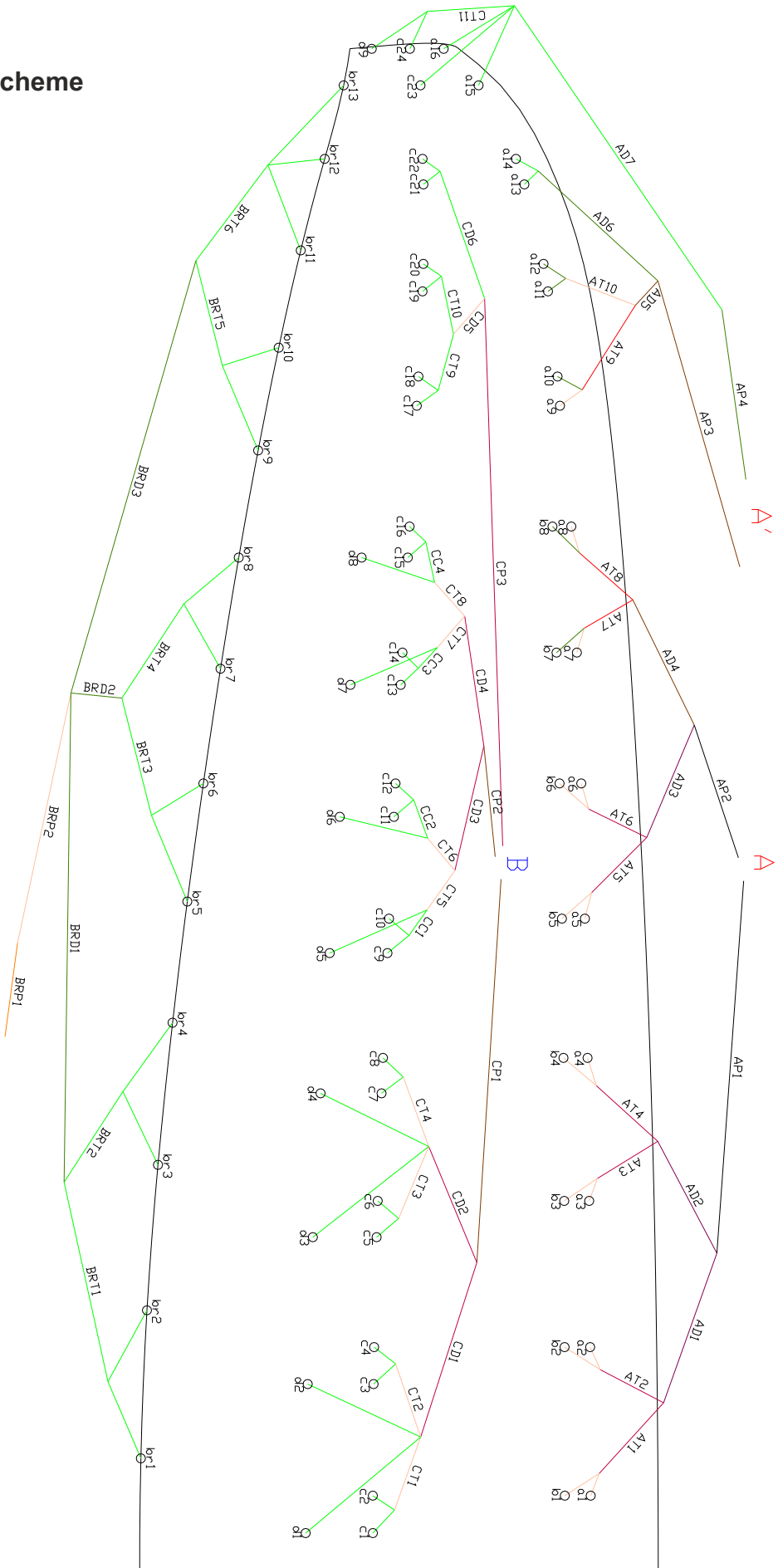
In case of paragliders used commercially (e.g. in schools or tandem flying) a Full Inspection is recommended every 12 months after first 24 months from purchase date or every 100 hours airtime (whatever comes first).

A paraglider can be officially inspected only by the manufacturer or a dealer (authorised to do so).

TECHNICAL DATA

Coden Pro	20	23,5	25,5
Certification	CCC	CCC	CCC
Number of cells	98	98	98
Surface area (flat) [m ²]	20,50	23,50	25,50
Surface area (projected) [m ²]	17,30	19,83	21,52
Span (flat) [m]	12,40	13,27	13,83
Span (projected) [m]	9,90	10,60	11,04
Aspect Ratio (flat)	7,50		
Aspect Ratio (projected)	5,67		
Max. cord [cm]	2100,00	2249,00	2342,00
Min. cord [cm]	441,00	473,00	492,00
Distance pilot to wing [m]	7,57	8,10	8,44
Total line length [m]	213,83	229,41	239,24
Weight range [kg]	80-95	95-115	110-130
Weight [kg]	5,8	6,3	6,6
Lines	Edelrid A-8000U: 050; 070; 090; 120; 130; 200; 230; 280; 360 Liros TSL00-0090; 0190		
Fabric	Porcher Universal 32; 38 g/m ²		
	Porcher Classic 27 g/m ²		
	Porcher Hard 27; 32; 40 g/m ²		
	SR Scrim, SR Laminate 180 g/m ²		
Risers	COUSIN TRESTEC – Francja; PASAMON - Polska		

Lining scheme



Length of the lines

CodenPro-20

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	240	217	242	1554	718
2	241	217	175	1392	388
3	239	215	204	1381	499
4	239	217	194	1411	475
5	237	216	199	909	495
6	237	217	192	740	376
7	236	214	173	687	312
8	234	214	217	670	448
9	216		220	295	423
10	160		157		396
11	166		196		400
12	162		189		560
13	158		196		791
14	157		184		
15	538		170		
16	476		208		
17			208		
18			156		
19			161		
20			159		
21			156		
22			157		
23			528		
24			198		

The total lengths

Longueur des suspentes

Sumaryczna długość linek

	a	b	c	d	br
1	7614	7592	7627	7715	8055
2	7476	7451	7559	7553	7725
3	7438	7415	7458	7507	7515
4	7505	7483	7448	7532	7492
5	7427	7406	7415	7515	7304
6	7266	7246	7408	7341	7185
7	7203	7184	7461	7270	7118
8	7238	7222	7505	7278	7255
9	7034		7434	6736	7126
10	6983		7371		7099
11	6889		7259		7069
12	6885		7252		7229
13	6820		7198		7460
14	6819		7185		
15	6687		7218		
16	6625		7256		
17			7065		
18			7012		
19			6919		
20			6917		
21			6835		
22			6836		
23			6677		
24			6644		

	AT	BT	CT	CC	BRT
1	1156		1241	620	1477
2	1016		1115	474	1157
3	1007		1112	431	999
4	1074		1184	457	998
5	1077		368		669
6	917		362		639
7	858		362		
8	895		387		
9	738		691		
10	637		592		
11			304		

Technora A 8000U-050 70mm loops: XXXX

Technora A 8000U-050: XXXX

Technora A 8000U-070 70mm loops: XXXX

Technora A 8000U-070: XXXX

Technora A 8000U-090: XXXX

Technora A 8000U-120: XXXX

Technora A 8000U-130: XXXX

Technora A 8000U-200: XXXX

Technora A 8000U-230: XXXX

Technora A 8000U-280: XXXX

Technora A 8000U-360: XXXX

	AD	BD	CD	DD	BRD
1	973		879		2234
2	946		844		2182
3	722		864		2407
4	698		846		
5	880		842		
6	1419		1332		
7	4827				

TSL00-0090-086: XXXX

	AP	BP	CP	DP	BRP
1	4831		4816		1909
2	4976		4927		1721
3	4763		4851		
4	810				

TSL00-0190-059: XXXX

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

CodenPro-23

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	256	231	259	1661	768
2	257	231	187	1489	416
3	255	230	218	1474	533
4	255	232	207	1509	509
5	252	231	212	971	529
6	253	231	206	790	403
7	252	229	185	734	333
8	249	229	232	716	480
9	230		235	315	452
10	170		168		424
11	177		209		427
12	172		202		602
13	168		210		851
14	167		196		
15	576		182		
16	509		222		
17			223		
18			166		
19			172		
20			170		
21			167		
22			167		
23			565		
24			212		

The total lengths

Longueur des suspentes

Sumaryczna długość linek

	a	b	c	d	br
1	7614	7592	7627	7715	8055
2	7476	7451	7559	7553	7725
3	7438	7415	7458	7507	7515
4	7505	7483	7448	7532	7492
5	7427	7406	7415	7515	7304
6	7266	7246	7408	7341	7185
7	7203	7184	7461	7270	7118
8	7238	7222	7505	7278	7255
9	7034		7434	6736	7126
10	6983		7371		7099
11	6889		7259		7069
12	6885		7252		7229
13	6820		7198		7460
14	6819		7185		
15	6687		7218		
16	6625		7256		
17			7065		
18			7012		
19			6919		
20			6917		
21			6835		
22			6836		
23			6677		
24			6644		

	AT	BT	CT	CC	BRT
1	1236		1328	663	1580
2	1088		1195	507	1240
3	1076		1189	461	1069
4	1149		1267	489	1069
5	1152		393		715
6	981		388		690
7	917		386		
8	958		414		
9	789		739		
10	680		634		
11			324		

Technora A 8000U-050 70mm loops: XXXX

Technora A 8000U-050: XXXX

Technora A 8000U-070 70mm loops: XXXX

Technora A 8000U-070: XXXX

Technora A 8000U-090: XXXX

Technora A 8000U-120: XXXX

Technora A 8000U-130: XXXX

Technora A 8000U-200: XXXX

Technora A 8000U-230: XXXX

Technora A 8000U-280: XXXX

Technora A 8000U-360: XXXX

	AD	BD	CD	DD	BRD
1	1036		937		2387
2	1013		904		2337
3	769		923		2581
4	747		906		
5	941		899		
6	1518		1425		
7	5267				

TSL00-0090-086: XXXX

	AP	BP	CP	DP	BRP
1	5209		5193		1909
2	5369		5317		1984
3	5145		5236		
4	810				

TSL00-0190-059: XXXX

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

CodenPro-25

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	266	240	269	1729	799
2	267	240	195	1551	433
3	265	239	226	1534	554
4	265	241	215	1571	530
5	262	240	220	1010	551
6	263	240	214	822	420
7	262	238	192	764	346
8	259	238	242	745	500
9	239		244	328	471
10	177		174		442
11	184		218		444
12	179		210		628
13	175		218		889
14	174		204		
15	599		189		
16	530		231		
17			232		
18			173		
19			179		
20			176		
21			174		
22			174		
23			588		
24			220		

The total lengths

Longueur des suspentes

Sumaryczna długość linek

	a	b	c	d	br
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

	AT	BT	CT	CC	BRT
1	1287		1383	690	1645
2	1134		1245	527	1292
3	1119		1237	480	1112
4	1196		1320	509	1114
5	1200		409		744
6	1021		404		723
7	954		401		
8	997		430		
9	821		770		
10	708		659		
11			337		

Technora A 8000U-050 70mm loops: XXXX

Technora A 8000U-050: XXXX

Technora A 8000U-070 70mm loops: XXXX

Technora A 8000U-070: XXXX

Technora A 8000U-090: XXXX

Technora A 8000U-120: XXXX

Technora A 8000U-130: XXXX

Technora A 8000U-200: XXXX

Technora A 8000U-230: XXXX

Technora A 8000U-280: XXXX

Technora A 8000U-360: XXXX

	AD	BD	CD	DD	BRD
1	1077		972		2484
2	1055		941		2434
3	799		961		2691
4	778		943		
5	979		935		
6	1581		1484		
7	5545				

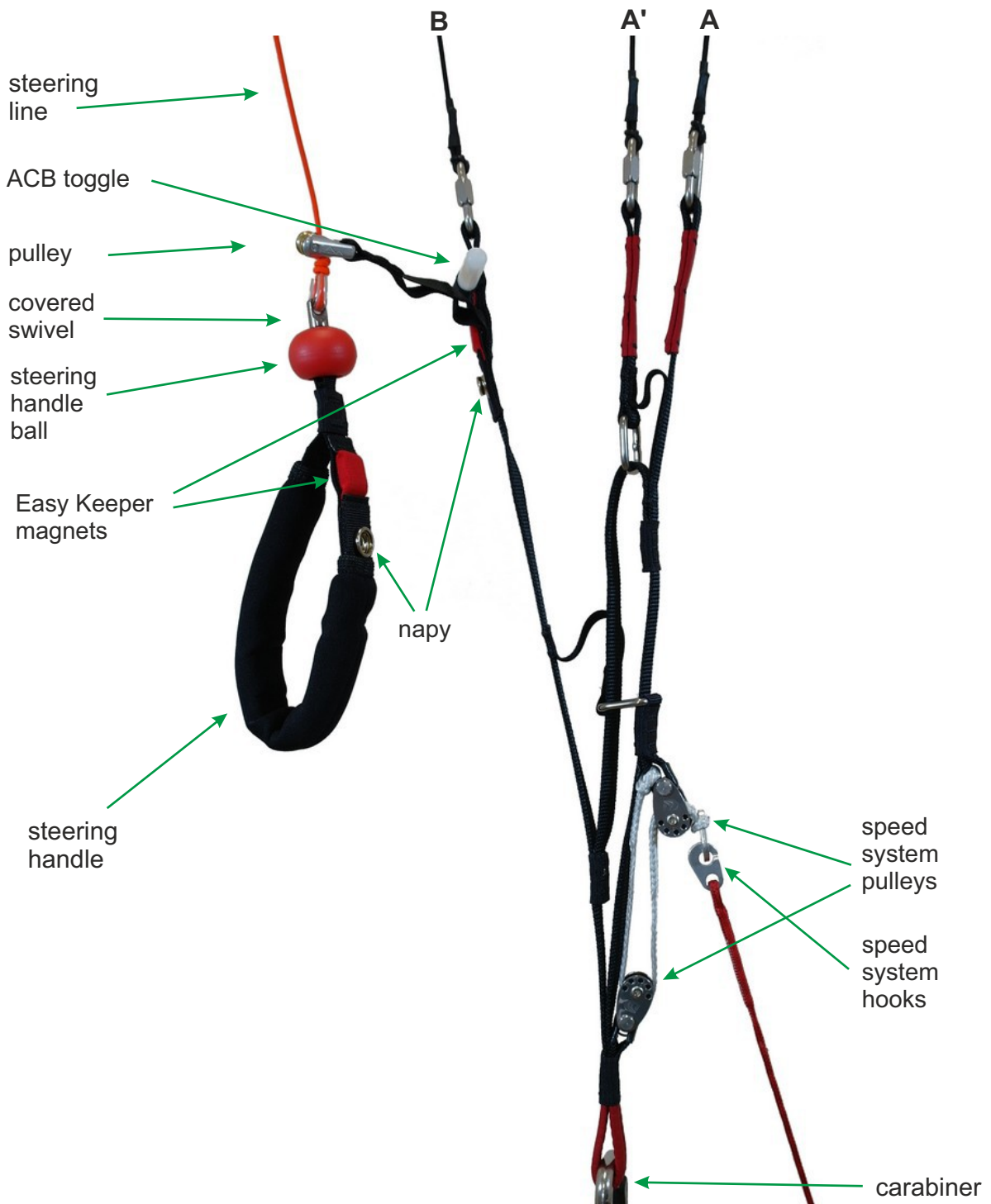
TSL00-0090-086: XXXX

TSL00-0190-059: XXXX

	AP	BP	CP	DP	BRP
1	5447		5431		1909
2	5617		5563		2151
3	5385		5479		
4	810				

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

Coden risers



Other informations:

- number of risers: 2 (with A riser split into A and A')
- trimmers: No

Speed system influence on the aerofoil

Risers neutral (without speed)

Slowest speed,
minimum sink,
Take off position

length of the risers with maillons
tolerancy +/- 5mm

size:	20	23	25
row:			
A	527	527	527
A'	527	527	527
B	527	527	527



Full speed

Increased speed,
increased sink

length of the risers with maillons
tolerancy +/- 5mm

size:	20	23	25
row:			
A	428	-----	-----
A'	470	-----	-----
B	527	527	527



Components

List of components and materials for Coden Pro

Name of product	Dimension	Supplier	Location of use							
			Top		Bottom		Ribs suspended	Ribs unsususpended	Diagonals	Vector – stripes
			surface front	Top surface	surface front	Bottom surface				
CANOPY			Others							
Porcher F70000 1580 E4A	27gr	NCV industries			X	X				
Porcher F70000 1580 E91	27gr	NCV industries					X	X	X	X
Porcher 70032 1580 E3W	32gr	NCV industries		X						
Porcher 70032 1580 E4D	32gr	NCV industries				X	X	X	X	X
Porcher 09017 1580 E25	38gr	NCV industries		X						
Porcher 09017 1580 E29	38gr	NCV industries				X	X	X	X	X
Porcher 09092 1520 001 80g	80gr	NCV industries	Reinforcements							
Porcher 06383 1450 X20004	170gr	NCV industries	Reinforcements							
Porcher 02420 1450 X15A	180gr	NCV industries	Reinforcements							
Nylon Fibre 2,0mm	fi 2,0mm	Zarys	Reinforcements on ribs							
Nylon Fibre 2,4mm	fi 2,4mm	Zarys	Reinforcements on ribs							
Webbing 57 501/12,5	12,5mm	GUTH & WOLF	Suspension points							
Metal Ring JG14001-3-8	8/3mm	Airwill Industries	On trailing edge							
Machine thread Durafix size 60	60	Durak	Canopy sewing							

LINES

	Dimension	Supplier	Location of use		
			Others	Main	Brake
Technora A-8000/U-50	0,5mm/50 daN	Edelrid	X	X	X
Technora A-8000/U-70	0,7mm/70 daN	Edelrid	X		X
Technora A-8000/U-090	0,8mm/90 daN	Edelrid	X	X	
Technora A-8000/U-120	0,9mm/120 daN	Edelrid	X		
Technora A-8000/U-130	1,0mm/130 daN	Edelrid	X	X	
Technora A-8000/U-200	1,2mm/200 daN	Edelrid	X	X	X
Technora A-8000/U-230	1,3mm/230 daN	Edelrid	X	X	
Technora A-8000/U-280	1,5mm/280 daN	Edelrid	X		
Technora A-8000/U-360	2,1mm/340 daN	Edelrid	X		
Technora TSL00-0090	1,2mm/90 daN	Liros	X		
Technora TSL00-0190	1,55mm/190 daN	Liros			X
Machine thread Durafix size 60	60	Durak	Lines sewing		

RISERS & METAL PARTS

Webbing polyester/technora	12mm	Cousin	Riser main
Webbing TS548/20	20mm	Pasamon	Trimer tape
Webbing TS548/25	25mm	Pasamon	Trimer tape
Webbing TS548/10	10mm	Pasamon	Suspension for accelerator pulley
Rubber O-rings 14x2mm	14x2mm	ABS Servis	For lines protection
Neodymium magnet 16x16x4[N38]	16x16x4mm	Biegun	Riser magnet
DUDEK Smart Pulley	16mm	Fixi / Dudek	Accelerator pulley
Rolls - AustriAlpin	9mm	AustriAlpin	Accelerator pulley
Normal Inox MRNI04.0	fi 4,0mm	Pequet	Oval
Brummel Hook Be 180	25mm	Finsterwalder	Accelerator line
Rectangle inox - welded	20/4mm	Sow-Yacht	Riser construction
Machine thread Gral size 20	20	COATS	Riser sizing
Metal Ring JG14001-3-8	8/3mm	Airwill Industries	Riser construction
Line D-pro 3,0	fi 3,0mm	Liros	Accelerator line