



Service documents



02-2018

## SERVICE MANUAL

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

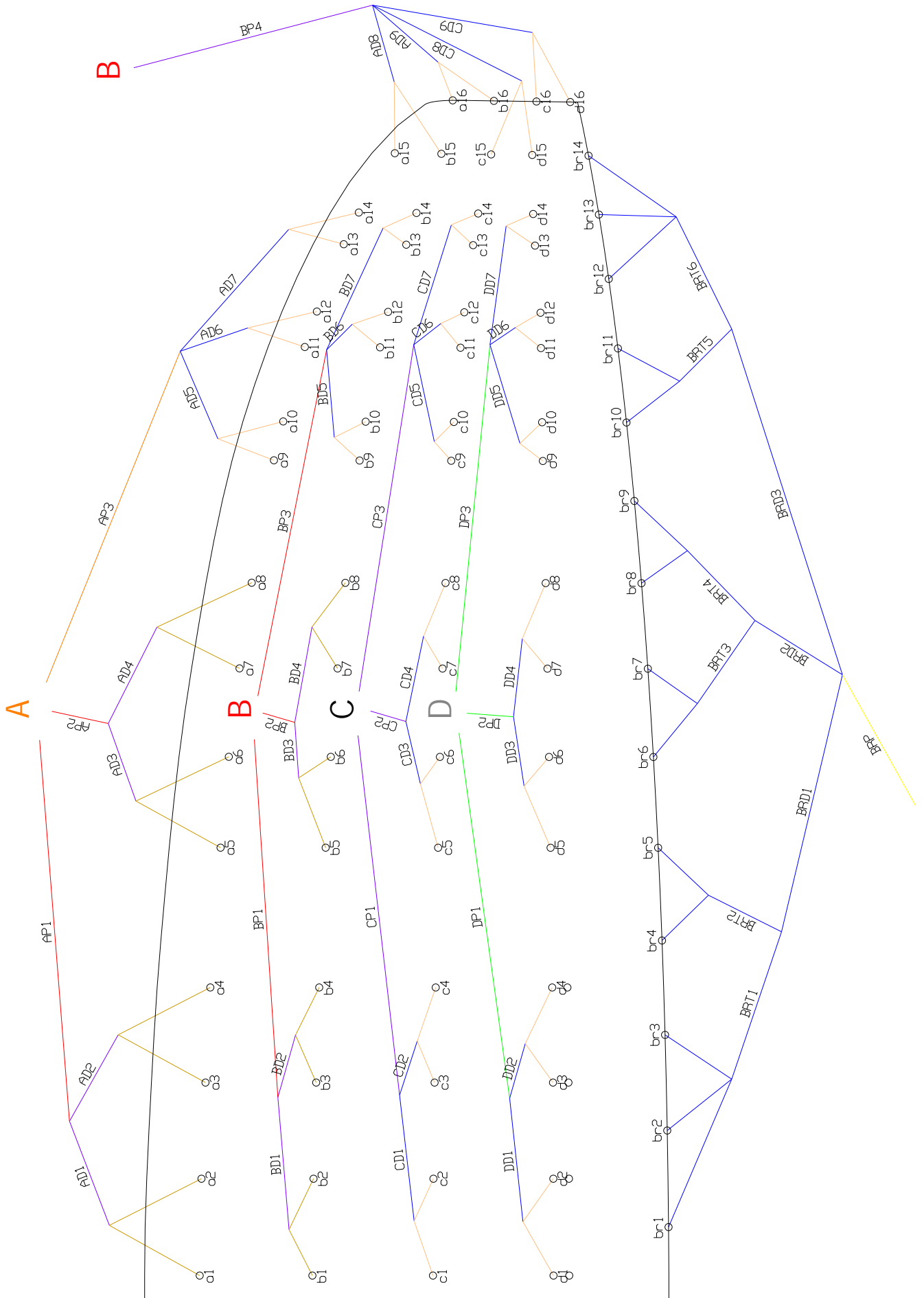
In case of paragliders used commercially (e.g. in schools or tandem flying) a Full Inspection is recommended every 12 months after first 24 months from purchase date or every 100 hours airtime (whatever comes first).

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

## TECHNICAL DATA

<b>Mach 1.1</b>	<b>17</b>
Certification	-
	-
Number of cells	59
Surface area (flat) [m <sup>2</sup> ]	17,00
Surface area (projected) [m <sup>2</sup> ]	14,56
Span (flat) [m]	9,76
Span (projected) [m]	7,92
Aspect Ratio (flat)	5,60
Aspect Ratio (projected)	4,31
Max. cord [cm]	213,10
Min. cord [cm]	59,70
Distance pilot to wing [m]	7,03
Total line length [m]	335,60
Weight range [kg]	55-110
Weight [kg]	5,6
Lines	Edelrid: 7343-090, 140, 190, 280; A-8000U 050, 090
Fabric	Dominico tex 41 g/m <sup>2</sup> Porcher Hard 45 g/m <sup>2</sup> SR Scrim, SR Laminate 180 g/m <sup>2</sup>
Risers	PASAMON - Bydgoszcz, Polska

# Lining scheme



## Length of the lines

Mach 1,1 - 17

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	1070	1066	1072	969	1716
2	986	982	982	870	1551
3	1031	1026	1029	871	1466
4	1036	1032	1041	886	1365
5	1006	1064	1004	929	1329
6	933	991	927	844	1294
7	942	993	931	846	1220
8	929	982	927	844	1205
9	371	362	361	363	1180
10	321	315	311	309	1234
11	350	337	332	335	1167
12	318	307	302	301	1147
13	322	302	293	295	1099
14	312	293	284	282	1072
15	732	704	598	644	
16	634	627	441	481	

The total lengths

Longueur des suspentes

Sumaryczna długość linek

	a	b	c	d	br
1	6373	6320	6378	6468	6916
2	6288	6237	6287	6365	6751
3	6255	6203	6258	6334	6636
4	6257	6210	6271	6350	6569
5	6197	6148	6210	6286	6532
6	6124	6076	6134	6202	6451
7	6082	6032	6090	6152	6377
8	6067	6025	6085	6147	6305
9	5936	5893	5957	6033	6282
10	5889	5845	5907	5980	6215
11	5793	5752	5811	5880	6148
12	5762	5724	5783	5845	6086
13	5709	5677	5735	5793	6040
14	5700	5667	5725	5778	6015
15	5587	5560	5579	5621	
16	5463	5450	5459	5495	

	AD	BD	CD	DD	BRT
1	1083	1078	911	893	1369
2	1005	1001	831	859	1366
3	1096	1018	918	875	1106
4	1042	973	871	827	1049
5	1439	1381	1263	1189	1041
6	1315	1267	1148	1062	1000
7	1260	1223	1110	1013	
8	523		650		
9	493		705		

	AP	BP	CP	DP	BRD
1	4256	4216	4422	4628	1591
2	4135	4107	4314	4505	1807
3	4157	4179	4362	4510	1695
4		4317			

BRP 2260

Technora A 8000U-050:



Technora A 8000U-090:



Technora 7343-090-005:



Technora 7343-140-006:



Technora 7343-190-024:



Technora 7343-280-011:



Technora 7343-280-018:



Technora 7343-420-041:



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

# Components

## List of components and materials for Mach1,1

Name of product	Dimension	Supplier	Location of use										
			Top				Bottom						
			Others	front	Top surface	front	Bottom surface	Ribs suspended	Ribs unsususpended	Diagonals	Vector – stripes		
<b>CANOPY</b>													
Dominico DOKDO-30DMF(WR)	40gr	Domico Textile		X	X	X	X						
Porcher 09017 1580 E29	38gr	NCV industries							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										
Porcher 06382 0015 004 170g	15mm/170gr	NCV industries	Edging on intake										
Nylon Fibre 2,0mm	fi 2,0mm	Zarys	Reinforcements on ribs										
Nylon Fibre 2,4mm	fi 2,4mm	Zarys	Reinforcements on ribs										
Nylon Fibre 3,0mm	fi 3,0mm	Zarys	Reinforcements on ribs										
Webbing 57 501/12,5	12,5mm	GUTH & WOLF	Suspension points				& Edging on intake						
Machine thread Durafix size 60	60	Durak	Canopy sewing										
<b>LINES</b>				Others	Main	Brake							
Technora A-7343-090	1,2mm/90 daN	Edelrid	X				X						
Technora A-7343-140	1,3mm/140 daN	Edelrid		X									
Technora A-7343-190	1,5mm/190 daN	Edelrid	X	X									
Technora A-7343-280	1,8mm/280 daN	Edelrid	X										
Technora A-7343-420	2,3mm/420 daN	Edelrid	X										
Technora A-8000/U-50	0,5mm/50 daN	Edelrid	X										
Technora A-8000/U-090	0,8mm/90 daN	Edelrid	X										
Machine thread Durafix size 60	60	Durak	Lines sewing										
<b>RISERS &amp; METAL PARTS</b>													
Webbing TE216/20D	20mm	Pasamon	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					Suspension for brake pulley					
Webbing TS555/20	20mm	Pasamon	Suspension for accelerator pulley					Suspension for brake pulley					
Webbing TS555/25	25mm	Pasamon	Suspension for accelerator pulley										
Rubber O-rings 14x2mm	14x2mm	ABS Serwis	For lines protection										
DUDEK Smart Pulley	16mm	Fixi / Dudek	Accelerator pulley				& Brake pulley						
Rolls - AustriAlpin	15mm	AustriAlpin	Brake pulley										
Delta Inox MRDI03.5	fi 3,5mm	Pequet	Mailon										
Brummel Hook Be 180	25mm	Finsterwalder	Accelerator line										
Rectangle inox - welded	20/4mm	Sow-Yacht	Riser constraction										
Rectangle inox - welded	25/4mm	Sow-Yacht	Riser constraction										
Buckle regulator 25mm	25mm	NINGBO	Buckle trimer										
Machine thread Gral size 20	20	COATS	Riser sewing										