



Service documents



04-2018

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.

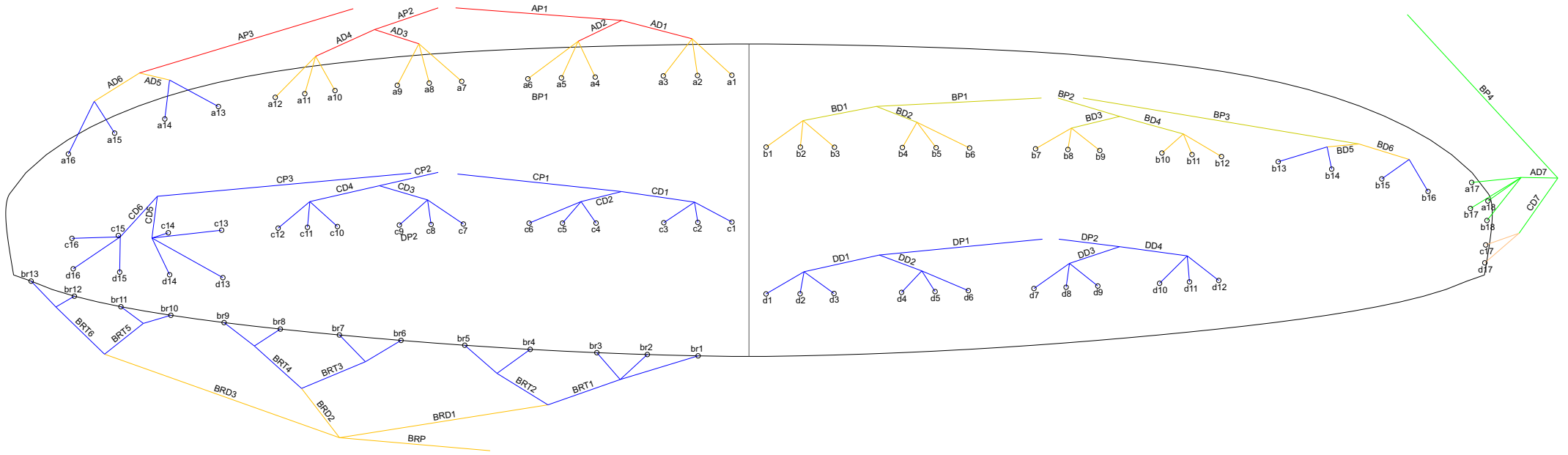
In case of paragliders used commercially (e.g. in schools or tandem flying) a Full Inspection is recommended every 12 months after first 24 months from purchase date or every 100 hours airtime (whatever comes first).

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

TECHNICAL DATA

Orca 4	41
Certification	EN B
	LTF B
Approval - ULM identification	-
Number of cells	53
Surface area (flat) [m ²]	41,00
Surface area (projected) [m ²]	34,83
Span (flat) [m]	14,88
Span (projected) [m]	11,77
Aspect Ratio (flat)	5,40
Aspect Ratio (projected)	3,97
Sink rate [m/s]	min = 1,1 + - 0,1m/s
Speed [km/h]	trim = 38; max = 50 + - 2km/h
Max. cord [cm]	342,50
Min. cord [cm]	84,20
Distance pilot to wing [m]	8,93
Total line length [m]	429,17
Total take-off weight - PG [kg]	120-220
Total take-off weight - PPG/PPGG [kg]	120-250
Maximum symmetric control travel at maximum weight in flight [cm]	65,00
Distance between risers [cm]	55,00
Weight [kg]	7,27
Lines	Technora: 1,2 & 1,3 & 1,5 & 1,8 & 2,3; A-8000U-050
Fabric	Porcher 38 g/m ²
	Porcher 32 g/m ²
	Porcher Hard 38 g/m ²
	Porcher Hard 32 g/m ²
	SR Scrim, SR Laminate 180 g/m ²
Risers	PASAMON - Bydgoszcz, Polska

Lining scheme



Length of the lines

Orca 4 – 41

Tabele / The tables / Tables / Tabelle:

Długości i rodzaj poszczególnych linek

The individual lengths and type of line

La longueur et le type de chaque ligne

Die einzelnen Leinlängen und Art.

	a	b	c	d	br
1	1324	1318	1325	1338	1415
2	1219	1213	1220	1233	1111
3	1187	1182	1189	1203	909
4	1227	1221	1229	1243	1000
5	1218	1212	1220	1233	954
6	1281	1275	1283	1297	1024
7	1238	1229	1239	1257	828
8	1155	1148	1157	1172	839
9	1139	1135	1143	1156	883
10	1100	1084	1094	1120	768
11	1086	1073	1083	1105	655
12	1133	1122	1132	1151	653
13	923	900	1031	1098	681
14	760	749	872	925	
15	870	812	841	887	
16	800	754	758	795	
17	739	661	279	366	
18	607	590			

Sumaryczna długość linek (z taśmami)

The total lengths (with risers)

Longueur des suspentes (avec élévateurs)

Gesamtlänge der Leinen (mit Tragegurten)

	a	b	c	d	br
1	8925	8823	8864	8988	9737
2	8822	8719	8758	8884	9438
3	8790	8686	8730	8854	9230
4	8765	8657	8700	8827	9044
5	8755	8647	8691	8816	8999
6	8818	8712	8760	8882	8785
7	8794	8678	8721	8824	8648
8	8711	8598	8637	8739	8588
9	8696	8583	8628	8724	8638
10	8655	8553	8596	8685	8502
11	8641	8544	8586	8671	8391
12	8691	8592	8631	8716	8363
13	8570	8478	8538	8605	8336
14	8407	8327	8381	8434	
15	8283	8204	8253	8299	
16	8215	8147	8170	8208	
17	7956	7881	7863	7950	
18	7826	7811			

	AD	BD	CD	DD	BRT
1	2015	2006	2019	2039	1600
2	1948	1939	1950	1972	1320
3	1844	1822	1839	1879	1293
4	1847	1842	1856	1875	1222
5	1548	1488	1393		970
6	1315	1303	1298		951
7	392		754		

	AP	BP	CP	DP	BRD
1	5188	5115	5142	5242	3410
2	5314	5245	5269	5318	3159
3	5694	5697	5736		3389
4		6436			

BRP 3315

Technora A 8000U-050:

XXXX

Technora 7343-090:

XXXX

Technora 7343-140:

XXXX

Technora 7343-190:

XXXX

Technora 7343-280:

XXXX

Technora 7343-340:

XXXX

Technora 7343-420:

XXXX

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

Orca 4 risers



Other informations:

- number of risers: 4 (with A riser split into A and A')
- trimmers: Yes

Risers

Trimmers Closed

Slowest speed, minimum sink



- A - 425
- A' - 425
- B - 415
- C - 407
- D - 400

Trimmers fully released

Maximum speed and increased sink



- A - 425
- A' - 425
- B - 460
- C - 497
- D - 535

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

