

MAIN CANOPY PACKING MANUAL





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Mamba Vision Pilot Triathlon Solo A2 SMART Reserve

REVISED December 2020

PRIOR TO ASSEMBLY, PACKING OR USE OF THIS PRODUCT, READ AND FULLY UNDERSTAND THE CONTENT AND ALL WARNINGS CONTAINED IN THIS MANUAL, AND CAREFULLY FOLLOW ALL INSTRUCTIONS BEFORE AND DURING PACKING AND USING THE PARACHUTE SYSTEM

CONTENTS

Le	tter fro	m The Aerodyne Team	i
W	ARNING	G	ii
DI	LIMITA	IER; LIMITATION OF WARRANTY ON PARACHUTE; TION OF REMEDIES; WAIVER AND RELEASE OF	
	WARR	ANTIES	iii
C/	ANOPY S	SELECTOR	V
1.	TECHN	ICAL CHARACTERISTICS	1
	1.1	INTRODUCTION	1
	1.2	DESCRIPTION	1
	1.3	TECHNICAL SPECIFICATIONS AND LIMITATIONS	2
2.	ASSEM	BLY AND OPERATING INSTRUCTIONS	3
	2.1	INSPECTION BEFORE PACKING AND ASSEMBLY	3
	2.2	INSTALLATION OF THE SOFT LINKS	4
	2.3	PACKING THE MAIN CANOPY	5
	2.3	.1 SETTING UP THE CANOPY	
	2.3	.2 PACKING THE CANOPY	
	2.4	IN FLIGHT USE	13
3.	MAINT	ENANCE	14
	3.1	MAINTENANCE PROCEDURES	14
	3.2	FREQUENCY OF MAINTENANCE PROCEDURES	15
	3.3	STORAGE	15

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What is Aerodyne all about? It's pretty simple really, something of a mantra for our company:

Better Gear, Better Value, Better Skydives

Better Gear has always been part of Aerodyne's DNA. We began with the do-it-all 7 cell, the Triathlon. We created the Smart Reserve, known around the world for superior quality. We created the Pilot, arguably the best-opening performance canopy on the market. With the Mamba, we've taken non-cross- braced elliptical canopy design to new performance highs. We developed a better cutaway system with the mini-force ring; even our hook knife outclasses the competition by a mile. "Better" really drives everything we do; as we develop innovative fabrics like zpX, as we bring out canopies like the Sensei and more A2 sizes, as we continue to improve an already outstanding Icon rig, we are following this mantra.

The second part is about providing *Better Value*. This is not necessarily about the lowest price, but about providing great value for money. We know our customers work hard and play hard and expect to get real value for the money they spend. Better products at comparable prices mean better value. Better customer service, provided by people who really know the equipment is also part of Aerodyne's commitment to better value.

The final part is about *Better Skydives*. We are a company owned and staffed by skydivers. We get it! Skydiving is fun, and the better your jumps, the more fun you have. We support this by not only making the best gear and providing the best value we can, but by taking our product out there. You'll see us at the DZ almost every weekend, jumping, load organizing, and generally having fun. We ask that our sponsored teams and individuals do the same, putting their time and energy into improving your skydives and your fun. That's why you skydive, and we're here to help.

The Aerodyne Team

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MAIN CANOPY PACKING MANUA	
WARN	IING!
 PROPER TRAINING AND/OR EXPERIENCE ARE RI INJURY OR DEATH. 	EQUIRED TO LOWER THE RISK OF SERIOUS
NEVER USE THIS PARACHUTE SY	STEM UNLESS YOU HAVE:
	ROPRIATE OWNERS MANUAL AND PACKING
INSTRUCTIONS AND COMPLETED A "C	ONTROLLED PROGRAM OF INSTRUCTION" IN
THE USE OF THIS PARACHUTE SYSTEM	l.
	ROPRIATE OWNERS MANUAL AND PACKING
	EAST 100 RAM AIR PARACHUTE JUMPS.
2. LOWER THE RISK OF DEATH, SERIOUS INJURY, C	
NEVER EXCEEDING THE MAXIMUM LIMITS	
MAXIMUM DEPLOYMENT SPEED:	### KTS
MAXIMUM EXIT WEIGHT:	### Lbs.
(Jumper + Clothing + Equipment)	
MODEL & SIZE:	####
PART NUMBER:	####
SERIAL NUMBER:	####
DATE OF MANUFACTURE:	####
VERSION:	####
HARD OPENINGS CAN CAUSE EQUIPMENT DAMA SYSTEMS SOMETIMES FAIL TO FUNCTION PROPE PACKED AND OPERATED. YOU RISK SERIOUS INJU ANY PARACHUTE SYSTEM, BY DOING SO YOU W IMPLIEDLY ASSUM	ERLY EVEN WHEN CORRECTLY ASSEMBLED, RY OR DEATH EACH TIME YOU USE THIS OR /ILL BE DEEMED TO HAVE EXPRESSLY AND
AERODYNE RESE	ARCH LLC
1407 Flight Line B	
Deland, Fl 327 Tel: (813)891-6300 Fa	
www.flyaerod	
REMOVAL OF THIS LABEL IS PROHIBIT MADE IN SOUT	

DISCLAIMER; LIMITATION OF WARRANTY ON PARACHUTE; LIMITATION OF REMEDIES; WAIVER AND RELEASE OF WARRANTIES

BY ACCEPTING AND USING THIS PARACHUTE, OR BY ALLOWING OTHERS TO USE IT, YOU CONFIRM THAT YOU UNDERSTAND THAT BECAUSE OF THE UNAVOIDABLE DANGER ASSOCIATED WITH THE USE OF THIS PARACHUTE, THE MANUFACTURER MAKES NO WARRANTY WHATSOEVER, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, EXCEPT A WARRANTY THAT A PARACHUTE OF SIMILAR DESIGN HAS BEEN PREVIOUSLY USED FOR PARACHUTE JUMPING. THE PARACHUTE IS SOLD, CONVEYED, LOANED, GIFTED, OR OTHERWISE DELIVERED, FURNISHED OR PROVIDED TO YOU BY THE MANUFACTURER, OR ON ITS BEHALF, AS IS, WITH ALL FAULTS, AND WITHOUT ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR USE.

THE MANUFACTURER EXPRESSLY DISCLAIMS ANY LIABILITY UNDER THE LAW, IN TORT OR OTHERWISE, FOR DAMAGES, DIRECT OR CONSEQUENTIAL, INCLUDING BUT NOT LIMITED TO DAMAGES FOR PERSONAL INJURIES, WRONGFUL DEATH, PROPERTY DAMAGE AND LOSS OF USE OF THE PARACHUTE, RESULTING FROM ANY MALFUNCTION OF THE PARACHUTE, OR FROM ANY DEFECT IN DESIGN, MATERIAL, WORKMANSHIP OR MANUFACTURE OF THE PARACHUTE, WHETHER CAUSED BY NEGLIGENCE ON THE PART OF THE MANUFACTURER, AND/OR BY ANY AND ALL MANUFACTURERS OF ANY AND ALL PARTS, ACCESSORIES, COMPONENTS, OR APPLIANCES MADE A PART OF, OR APPURTENANT TO, THE PARACHUTE.

YOU, BY YOUR USE OF THE PARACHUTE, AND/OR BY ALLOWING IT TO BE USED BY OTHERS, SPECIFICALLY WAIVE ANY LIABILITY ON THE PART OF THE MANUFACTURER FOR PERSONAL INJURIES, WRONGFUL DEATH, LOSS OF CONSORTIUM, PROPERTY DAMAGE AND LOSS OF USE OF THE PARACHUTE. YOU AGREE, AND HAVE MATERIALLY REPRESENTED TO THE MANUFACTURER, THAT YOU ARE A "HIGHLY SOPHISTICATED AND EXPERIENCED CONSUMER" WITH RESPECT TO THE PARACHUTE, AND THAT YOU ARE THOROUGHLY AWARE OF, AND EXPRESSLY ACCEPT, ANY AND ALL OF THE RISKS OF PHYSICAL INJURY, DEATH AND/OR PROPERTY DAMAGE WHICH MAY OCCUR AS A RESULT OF YOUR USE AND/OR MISUSE OF THE PARACHUTE DESIGNED BY, MANUFACTURED BY AND/OR RECEIVED FROM THE MANUFACTURER. AS A "HIGHLY SOPHISTICATED AND EXPERIENCED CONSUMER," YOU EXPRESSLY WAIVE ANY CLAIM YOU MIGHT OTHERWISE HAVE OF STRICT LIABILITY AGAINST THE MANUFACTURER.

THE WARRANTIES SET FORTH ABOVE, AND THE OBLIGATIONS AND LIABILITIES OF THE MANUFACTURER, AND YOUR REMEDIES THEREUNDER, ARE EXPRESSLY IN LIEU OF, AND YOU HEREBY WAIVE AND RELEASE THE MANUFACTURER FROM, ANY AND ALL OTHER WARRANTIES, AGREEMENTS, GUARANTEES, CONDITIONS, DUTIES, OBLIGATIONS, REMEDIES OR LIABILITIES, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THOSE ARISING FROM COURSE OF PERFORMANCE, DEALING, USAGE OR TRADE, WITH RESPECT TO

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THE MANUFACTURER'S PERFORMANCE HEREUNDER, AND YOU AGREE THAT THE MANUFACTURER SHALL NOT BE LIABLE FOR ANY DAMAGE OR LOSS (INCLUDING BUT NOT LIMITED TO CONSEQUENTIAL DAMAGES) SUFFERED BY YOU, DIRECTLY OR INDIRECTLY, BECAUSE OF ANY DEFECT IN THE PARACHUTE. NO AGREEMENT OR UNDERSTANDING VARYING, ALTERING OR EXTENDING THE MANUFACTURER'S LIABILITY HEREUNDER SHALL BE BINDING ON THE MANUFACTURER, UNLESS IN WRITING AND SIGNED BY A DULY AUTHORIZED REPRESENTATIVE OF THE MANUFACTURER, AND BY YOU OR YOUR DULY AUTHORIZED REPRESENTATIVE.

IF YOU DECLINE TO WAIVE LIABILITY ON THE PART OF THE MANUFACTURER, OR IF YOU DECLINE TO AGREE TO ALL OF THE TERMS OF THIS "DISCLAIMER – LIMITATION OF WARRANTY ON PARACHUTE; LIMITATION OF REMEDIES; WAIVER AND RELEASE OF WARRANTIES," YOU MAY OBTAIN A FULL REFUND OF THE PURCHASE PRICE BY RETURNING THE PARACHUTE, BEFORE IT IS USED, TO THE MANUFACTURER, WITHIN 15 DAYS FROM THE DATE OF YOUR RECEIPT OF THE PARACHUTE, WITH A LETTER STATING WHY IT WAS RETURNED.

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Canopy Selector

This canopy selector program is designed as a non-exclusive guide to selecting a canopy. It is designed to be used to assist you in finding an appropriate model and size of Aerodyne canopy for your exit weight, experience level and expectations. Please remember that in no way can this selector replace professional expert advice that is based upon firsthand knowledge of your current experience, skill level and frame of reference.

Only training, experience, currency and a healthy body and mind can reduce (but not eliminate) the risk to you of danger, serious bodily injury, or death. Regardless of your time in the sport, never hesitate to consult other more experienced or knowledgeable individuals. They are often happy to help you make appropriate decisions. At Aerodyne we recommend that, for both your main and reserve canopies, you choose a canopy suitable for your experience level, which you can land safely at your normal drop zone's field elevation, in no wind, in hot summer conditions, utilizing a normal straight in approach and progressive flare.

Please note that this selector is based upon exit weight and International Standard Atmosphere (ISA) conditions. Exit weight is body weight + equipment + clothing. ISA conditions are at Mean Sea Level (MSL) with a temperature of 15 degrees Celsius and 101,325 Pa (29.92"Hg). Canopy wing performance degrades at higher altitudes and with higher temperatures.

Aerodyne has developed an objective method to determine the degree of ellipticity of a canopy's planform. We have dubbed this value the "planform factor" (Pf). A higher planform factor equates to a greater degree of ellipticity and will likely exhibit the associated characteristics. Typically an elliptical canopy is more equally pressurized for better flight performance and exhibits better flare capability. Similarly the toggle pressure is usually lighter and the turn response is quicker. While these observations are not absolute, they are often typical of those exhibited by canopies with more elliptical planforms.

AERODYNE RESEARCH, LLC

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			Aerodyne Canopy			
			xit Weight= jumper + clot	v	1	
Canopy Model	Pf	Sizeft	Student/Novice Jumpers	Intermediate Jumpers	Advanced Jumpers	Maximun
Wing Loading lbs/ft 2 $ ightarrow$					1.8	2.0
2000018180					LBS KG	LBS KG
	22.1	90	Not recommended	Not recommended	162 74	180 82
	22.1	96	Not recommended	Not recommended	173 79	192 87
	22.1	104	Not recommended	Not recommended	187 85	208 95
	221	111	Not recommended	Not recommended	200 91	222 101
Mamba	22.1	117	Not recommended	Not recommended	211 96	234 106
	22.1	124	Not recommended	Not recommended	223 101	248 113
	22.1	132	Not recommended	Not recommended	238 108	264 120
	22.1	140	Not recommended	Not recommended	252 115	280 127
	22.1	150	Not recommended	Not recommended	264 120	300 136
/ing Loading lbs/ ft ² →					1.6	1.8
					LBS KG	LBS KG
	15.5	90	Not recommended	Not recommended	144 66	162 74
	15.5	96	Not recommended	Not recommended	154 70	173 79
	15.5	104	Not recommended	Not recommended	166 76	187 85
	15.5	111	Not recommended	Not recommended	178 81	200 91
	15.5	117	Not recommended	Not recommended	187 85	211 96
Vision	15.5	124	Not recommended	Not recommended	198 90	223 101
	15.5	132	Not recommended	Not recommended	211 96	238 108
	15.5	140	Not recommended	Not recommended	224 102	252 115
	15.5	150	Not recommended	Not recommended	240 109	264 120
	15.5	168	Not recommended	Not recommended	269 122	264 120
Wing Loading lbs/ft ² →			1.0	1.1	1.3	1.6
			LBS KG	LBS KG	LBS KG	LBS KG
	6.6	90	Not recommended	99 45	117 53	144 65
	6.6	96	Not recommended	106 48	125 57	153 69
	6.6	104	Not recommended	114 52	135 61	166 76
	6.6	111	Not recommended	122 56	144 66	177 80
	6.6	117	Not recommended	129 59	152 69	187 85
	6.6	124	Not recommended	136 62	161 73	198 90
	6.6	132	Not recommended	145 66	172 78	211 96
Pilot	6.6	140	Not recommended	154 70	182 83	224 102
	6.6	150	Not recommended	165 75	195 89	240 109
	6.6	168	Not recommended	185 84	218 99	269 122
	6.6	188	188 85	207 94	244 111	273 124
	6.6	210	210 95	231 105	273 124	286/130
	6.6	230	230 105	253 115	286 130	293 133
	6.6	250	250 113	273 124	293 133	300 136
	6.6	270	270 123	286 130	300 136	310 141
	6.6	290	290 132	293 133	310 141	321 146
Wing Loading lbs/ft ² \rightarrow			1.0 LBS KG	1.1 LBS KG	1.3 LBS KG	1.6 LBS KG
	10.0	102	Not recommended	143 65	184 83	224 102
	10.0	102	Not recommended	143 65	202 92	246 112
Zulu	10.0	112	Not recommended	171 78	202 92	268 122
Zulu	10.0	132	Not recommended	185 84	238 108	290 122
	10.0	152	Not recommended	213 97	274 124	300 136

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	MAIN C			IG MANUAL REVIS	ED – DECEMBER 2	020	
		Ae		Canopy Selector			
				eight= jumper + cloth			
Canopy Model Si		Size ²	Stude	ent/Novice Jumpers	Intermediate Jumpe		
Wing Loading lbs/ft ² →				LBS KG	LBS KG	LBS KG	LBS KG
	0.0	99	No	ot recommended	110 50	150 68	190 86
	0.0	120	No	ot recommended	130 59	150 68	210 95
	0.0	135	No	ot recommended	135 61	160 73	220 10
	0.0	150	No	ot recommended	160 73	175 79	230 10
	0.0	160	No	ot recommended	175 79	190 86	240 10
	0.0	175		175 79	190 86	220 100	250 11
	0.0	190		190 86	210 195	230 104	260 11
	0.0	210		210 95	220 100	240 109	270 12
Triathlon	0.0	220		220 100	230 104	250 113	280 12
	0.0	230		230 104	240 109	260 118	290 13
	0.0	240		240 109	250 113	270 122	300 13
	0.0	250		250 113	270 122	280 127	310 14
	0.0	260		260 118	280 127	290 132	320 14
	0.0	270		270 122	290 132	300 136	330 15
	0.0	280		280 127	300 136	310 141	340 15
	0.0	290		290 132	310 141	320 145	350 15
	0.0	300		300 136	320 145	330 150	360 16
				1.0	1.1		
Wing Loading lbs/ $^{2}\rightarrow$				LBS KG	LBS KG	LBS KG	LBS KG
	6.6 19		190	190 86	209 95	230 105	300 136
Solo	6.6		210	210 95	231 105	250 114	310 141
	6.6		230	230 105	253 115	270 123	321 146
	6	.6	250	250 114	275 125	290 132	332 151
	6	.6	270	270 123	290 132	300 136	343 156
	6	.6	290	290 132	300 136	310 141	354 161
		.6	310	300 136	310 141	321 146	370 168
Wing Loading lbs/ ² →							1.2 LBS KG
	6	.7	330	Not recommended	Not recommended	Not recommended	418 190
A-2 Tandem	andem 6.7 6.7		350	Not recommended	Not recommended	Not recommended	440 200
		.7	370 389	Not recommended Not recommended	Not recommended Not recommended	Not recommended Not recommended	470 214 500 227
	0	.7	389	1.0	1.0	1.3	500[227
Wing Loading lbs/ ² \rightarrow				LBS KG	LBS KG	LBS KG	LBS KG
		.0	99	Not recommended	99 45	129 59	220 100
	0	.0	110	Not recommended	110 50	143 65	220 100
	0	.0	120	Not recommended	120 55	156 71	220 100
	0	.0	135	Not recommended	135 61	176 80	220 100
		.0	150	Not recommended	150 68	195 89	264 120
SMART Reserve		.0	160	160 73	160 73	208 95	264 120
						228 103	264 120
	0	.0	175	175180	1/5180	220 103	
		.0 .0	175 190	175 80 190 86	175 80 190 86		-
	0	.0 .0 .0	175 190 220	175 80 190 86 220 100	190 86 220 100	247 112 264 120	264 120 264 120

Note: - Above specification and performance are linked to use of standard fabric & line. Choice of materials and customization will result is change in specifications and performance.

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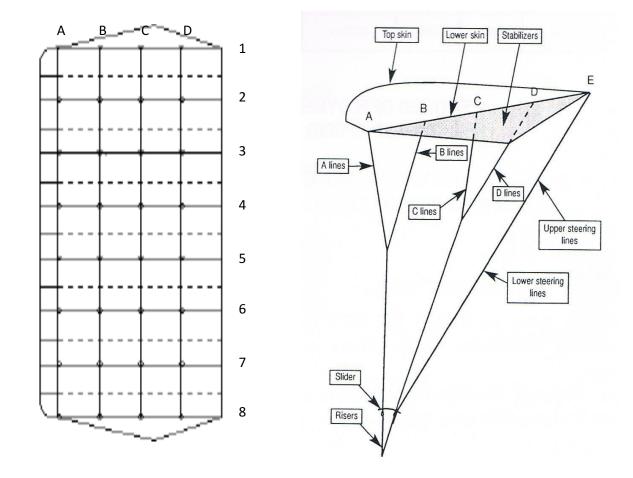
1 TECHNICAL CHARACTERISTICS

1.1 INTRODUCTION

THE MAIN CANOPY MUST BE INSPECTED AND ASSEMBLED BY A QUALIFIED PARACHUTE RIGGER AND IN COMPLIANCE WITH ALL APPLICABLE LAWS.

Before assembly, inspect the canopy, lines and links to ensure that the canopy size is compatible with the harness/container and deployment system with which it is to be used.

1.2 DESCRIPTION:



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Canopy	- 4	Wing Area				Aspect	No. of		Suspension	WEIGHT	VOLUME
Model	Pf	ft²	Span ft.	Chord Max	Chord Min	Ratio	Cells	Fabric	Lines	LBS KG	in ³
	22.1	90	15.6	6.39	4.27	2.7	9	ZP		4.51 2.05	289
	22.1	96	16.1	6.57	4.39	2.7	9	ZP		4.66 2.12	299
	22.1	104	17.3	6.86	4.59	2.7	9	ZP		4.84 2.20	317
	22.1	111	17.8	7.08	4.73	2.7	9	ZP	500 or 750	5.00 2.27	321
Mamba	22.1	117	18.3	7.30	4.88	2.7	9	ZP		5.14 2.34	330
1	22.1	124	18.6	7.50	5.02	2.7	9	ZP	LBS HMA	5.29 2.41	340
1	22.1	132	18.9	7.74	5.17	2.7	9	ZP		5.46 2.48	357
1	22.1	140	19.4	7.98	5.33	2.7	9	ZP		5.61 2.55	368
	22.1	150	20.1	8.21	5.49	2.7	9	ZP		2.83 2.65	381
	15.5	117	17.5	7.56	5.06	2.76	9	ZP		5.30 2.41	340
1	15.5	124	18.0	7.77	5.20	2.76	9	ZP	725 LBS	5.46 2.48	351
Vision	15.5	132	18.6	8.01	5.36	2.76	9	ZP	SPECTRA or	5.63 2.56	368
Vision	15.5	140	19.2	8.26	5.53	2.76	9	ZP		5.79 2.63	379
	15.5	150	19.8	8.51	5.69	2.76	9	ZP	HMA	6.01 2.73	393
	15.5	168	21.0	9.07	6.07	2.76	9	ZP		6.34 2.88	416
1	6.6	90	15.30	6.27	5.30	2.51	9	ZP		4.74 2.15	304
I	6.6	96	15.51	6.36	5.40	2.51	9	ZP		4.88 2.22	314
1	6.6	104	16.16	6.62	5.63	2.51	9	ZP		5.08 2.31	327
1	6.6	111	16.54	6.78	5.76	2.51	9	ZP		5.24 2.38	337
1	6.6	117	16.91	6.93	5.89	2.51	9	ZP	725 LBS	5.39 2.45	347
Pilot	6.6	124	17.64	7.23	6.15	2.51	9	ZP		5.46 2.48	351
Pliot	6.6	132	18.20	7.46	6.35	2.51	9	ZP	SPECTRA or	5.63 2.56	368
1	6.6	140	18.74	7.68	6.54	2.51	9	ZP	HMA	5.79 2.63	379
1	6.6	150	19.40	7.95	6.77	2.51	9	ZP		6.01 2.73	393
1	6.6	168	20.53	8.42	7.16	2.51	9	ZP		6.34 2.88	416
1	6.6	188	21.72	8.90	7.58	2.51	9	ZP		6.71 3.05	440
1	6.6	210	22.95	9.41	8.01	2.51	9	ZP		7.08 3.22	465
1	6.6 6.6	230 250	24.00 25.95	9.85 10.2	8.39 8.71	2.51 2.51	9 9	ZP ZP		7.41 3.37 7.74 3.51	486 501
1	6.6	250	25.95	10.2	9.08	2.51	9	ZP		8.05 3.66	527
1	6.6	290	26.98	11.0	9.41	2.51	9	ZP		8.34 3.79	546
	6.6	310	30.88	11.3	9.69	2.51	9	ZP		8.59 3.90	563
1	10.0 10.0	102 112	16.77 17.7	6.17 6.51	5.24 5.53	2.75 2.75	9	ZP ZP		4.8 2.2 5.1 2.3	305 325
.	10.0	122	18.58	6.78	5.76	2.75	9	ZP	700 LBS ZLX	5.3 2.4	340
Zulu	10.0	132	19.23	7.03	5.98	2.75	9	ZP		5.5 2.5	350
	10.0	152	21	7.68	6.53	2.75	9	ZP		5.7 2.6	370
	6.6	190	21.80	8.95	7.60	2.51	9			3.10 6.80	445
	6.6	210	23.00	9.45	8.10	2.51	9		725 LBS	3.25 7.10	470
	6.6	230	24.03	9.85	8.38	2.51	9		SPECTRA/	7.41 3.37	486
Solo	6.6	250	24.05	10.2	8.74	2.51	9	HYBRID	600 LBS	7.74 3.52	507
	6.6	270 290	26.03 26.98	10.7 11.1	9.08 9.41	2.51 2.51	9		DACRON	8.05 3.66	527 546
	6.6 6.6	310	30.88	11.1	9.41	2.51	9			3.79 8.34 8.59 3.90	465
	6.7	330	28.11	11.31	9.09	2.61	9		1500 LDC	12.10 5.49	761
	6.7	350	29.90	11.94	9.42	2.61	9		1500 LBS	12.54 5.70	788
A-2	6.7	370	30.16	12.08	9.75	2.61	9	HYBRID	SPECTRA or	13.00 5.90	816
	6.7	389	31.17	12.76	10.8	2.61	9		HMA	14.30 6.50	898
	0.0	99	14.11	7.02	7.02	2.0	7			3.30 1.50	262
	0.0	110	14.83	7.38	7.38	2.0 2.0	7			3.74 1.70	275 293
	0.0	120	15.59	7.71	7.71		7			3.96 1.80	
	0.0	135 150	16.40 17.32	8.14 8.63	8.14 8.63	2.0 2.0	7 7		725 LBS	4.18 1.90	333 346
SMART	0.0 0.0	160	17.32	8.86	8.86	2.0	7	0-3 CFM	SPECTRA	4.40 2.00 4.62 2.10	360
	0.0	175	17.82	9.28	9.28	2.0	7		SPECTRA	4.82 2.10	384
	0.0	190	19.46	9.68	9.68	2.0	7			5.29 2.40	409
	0.0					2.0	7			5.96 2.70	476
	0.0	220	20.90	10.4	10.4	20					

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1.3 TECHNICAL SPECIFICATIONS AND LIMITATIONS

Canopy Model	Pf	Wing Area ft ²	Span ft.	Chord Max	Chord Min	Aspect Ratio	No. of Cells	Fabric	Suspension Lines	WEIGHT LBS KG	VOLUME in ³
	0.0	99	14.12	7.05	7.05	2.0	7	ZP		3.96 1.80	242
	0.0	120	15.50	7.74	7.74	2.0	7	ZP		4.84 2.20	316
	0.0	135	16.43	8.20	8.20	2.0	7	ZP		5.28 2.40	349
	0.0	150	17.33	8.65	8.65	2.0	7	ZP		5.72 2.60	370
Triathlon	0.0	160	17.83	8.90	8.90	2.0	7	ZP	725 LBS	6.16 2.80	390
	0.0	175	18.67	9.32	9.32	2.0	7	ZP	SPECTRA/	6.38 2.90	405
	0.0	190	19.46	9.71	9.71	2.0	7	ZP	600 LBS	6.82 3.10	420
	0.0	210	20.25	10.11	10.11	2.0	7	ZP	DACRON	7.04 3.20	435
	0.0	220	20.90	10.45	10.45	2.0	7	ZP		7.26 3.20	462
	0.0	230	21.45	10.73	10.73	2.0	7	ZP		7.30 3.22	466
	0.0	240	21.91	10.96	10.96	2.0	7	ZP		7.45 3.39	470
	0.0	250	22.40	11.20	11.20	2.0	7	ZP		7.50 3.40	473
	0.0	260	22.83	11.42	11.42	2.0	7	ZP		7.70 3.50	485
	0.0	270	23.24	11.52	11.52	2.0	7	ZP		7.80 3.55	488
	0.0	280	23.27	11.60	11.60	2.0	7	ZP		7.86 3.57	495
	0.0	290	24.09	12.05	12.05	2.0	7	ZP		7.95 3.61	500
	0.0	300	24.75	12.38	12.38	2.0	7	ZP		8.01 3.64	505

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2 ASSEMBLY AND OPERATING INSTRUCTIONS

Before assembly, inspect the canopy, lines and links to ensure that the main canopy size is compatible with the harness-container and deployment system with which it is to be used. Read and follow all assembly and operating instructions, and follow all manufacturer specifications, instructions and requirements for use of the parachute system.

It is important to understand that the correct deployment of the main canopy is also dependent upon a number of factors, which are related to the harness-container system. Ensure that the deployment bag properly contains the main canopy, and that the bag is fitted with 4 grommets for closure. For proper deployment it is essential that the bag remains closed until line stretch. It is also important to ensure that the toggle system in the risers provides for a secure and protected brake setting. Premature brake release during deployment will most likely result in a malfunction.

2.1 INSPECTION BEFORE PACKING AND ASSSEMBLY

1. Read and understand this manual and be qualified by proper instruction for sport parachuting activities.

2. Ensure that the **MAIN CANOPY** size is compatible with the harness-container and deployment system with which it is to be used.

3. Prior to assembly and/or packing of the **MAIN CANOPY**, a thorough inspection must be completed, including but not limited to inspection of the following:

- -Upper skin
- -Lower skin
- -External ribs
- -Internal ribs
- -All stitching on fabric and lines
- -Slider and grommets
- -Soft links/connector links
- -Cutaway handle integrity and correct size fitted

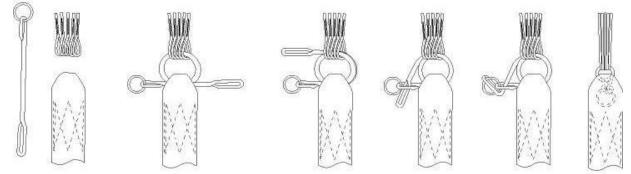
Take note of any worn, damaged, corroded or incorrectly rigged components, which must be repaired or replaced before the **MAIN CANOPY** is packed for use.

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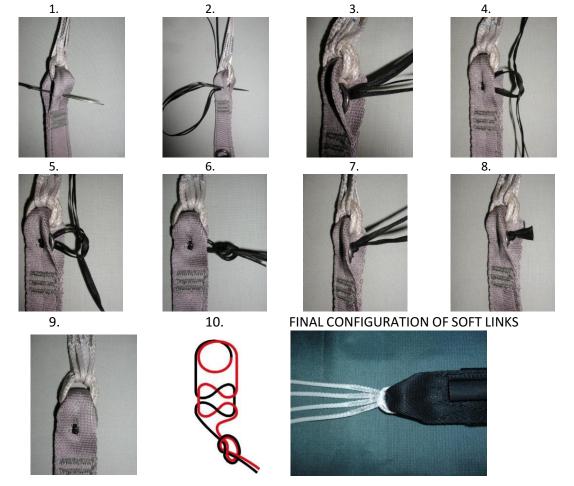
2.2 INSTALLATION OF THE SOFT LINKS

Soft Link type for individual main canopies PN: **P 1487-01**

Installation Procedure on front and rear main risers:

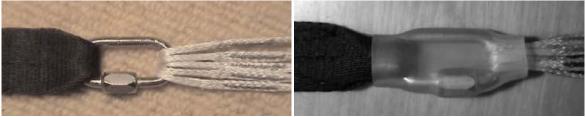


Secure the Soft Link ring in the webbing pocket, and hand tack as shown.



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If the canopy is connected to the risers with stainless steel rapide links, tighten the barrel with a wrench (do not over tighten or you may break the barrel) and slide the silicone tube over the link for protection.



2.3 PACKING THE MAIN CANOPY

2.3.1 SETTING UP THE CANOPY

1. Lay the canopy harness out and attach the lines to their respective riser. Ensure proper line continuity and that the links are correctly installed. (Refer to section 2.2)

2. Check that the slider is correctly installed (tapes facing the canopy).

3. Install the soft links according to the instructions on page 11. When using stainless steel rapid links, make sure that you do not over tighten the barrel.

4. Clear the steering lines of any twists and route them through the appropriate grommets and guide rings on the rear risers.

CAUTION: The steering lines must pass directly from the trailing edge of the canopy through the slider grommet and the guide ring, without passing under or through any suspension lines.

- 5. Attach the steering toggles at the trim marks on the steering lines (Refer to the owner's manual of the harness-Container system).
- 6. Re-check the whole assembly for line continuity and direction of flight i.e. canopy facing forward.
- Carry out a thorough inspection before packing the canopy. Items to inspect include, but are not limited to: UPPER SKIN, LOWER SKIN, EXTERNAL RIBS, INTERNAL RIBS, ALL STITCHING ON FABRIC LINES, SLIDER AND GROMMETS AND SOFT LINKS/CONNECTOR LINKS.

Take note of any worn, damaged, corroded or incorrectly rigged components, which must be repaired or replaced before the canopy is packed for use.

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2.3.2 PACKING THE CANOPY

LAYING THE CANOPY OUT

After assembling and inspecting the canopy and harness/container, lay the parachute system out on a smooth, clean surface.

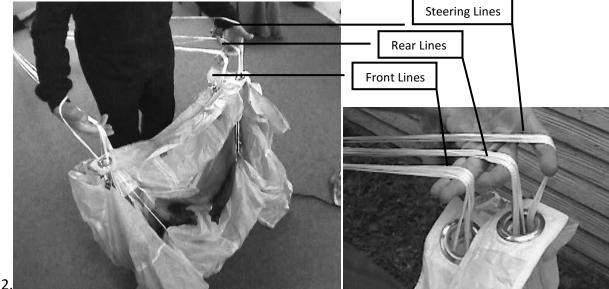
To set the toggles refer to your harness/container user's manual.

Undo the slider retraction, make sure you have fully stretched slider and that the retraction tabs are pulled firmly against the trailing edge, so that they cannot catch on lines.



Take the line groups at the risers and walk up to the canopy.

1



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Clear the nose of the canopy by flaking the leading edge. Pull out and count the cells. Align the front edge of the slider with the flaked leading edges.



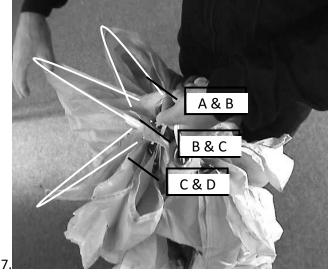
Holding the cell inlets firmly, shake the canopy vigorously to clear the fabric from the lines. Then, on one side of the canopy, separate line groups A & B and fold.





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Separate line groups B to C and C to D in the same way.





Fold the tail outwards.



Repeat the same operations on the other side of the canopy



10.

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This is a view of the flaked canopy. While keeping the nose pointing towards yourself, check that the slider is properly spread out between the 4 line bundles (front, back, and right, left) and that the slider grommets are pushed up against the slider stops. Note that all (steering) line attachments are at the center.



11.

Pick up the center cell by its leading edge (identified by small red tape) and lay it on top of the lines just below the slider. Hold firmly, and make sure that the slider stays in place, pushed up against the slider stops. Also make sure that the steering lines remain in the center and at the back.





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Clear each side of the tail and bring them around towards the front (nose) of the canopy. It is very important to make sure that no (steering) lines pass in front of the leading edge (nose), as this may cause a line-over malfunction.



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Gently swing the canopy out and lay it on the floor as shown. Carefully push the air out of the canopy. Again, make sure that the slider stays in place against the slider stops. WARNING: IF THE SLIDER IS NOT AGAINST THE SLIDER STOPS, THE POSSIBILITY OF A HARD OPENING AND SERIOUS INJURY OR DEATH IS SIGNIFICANTLY INCREASED.



S-fold the canopy bundle as required for the D-bag. Then gently slide the canopy into the D-bag.





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Close the D-bag and stow the lines.



Stow all the lines but leave about 60 to 70cm (23" TO 27") free to prevent line twists.



20.

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2.4 IN FLIGHT USE.

When deploying your main canopy keep your shoulders horizontal to load the canopy evenly and prevent off heading openings.

Should you encounter a line twist after canopy deployment, do not release the brakes until you have cleared the twist.

Please be extremely cautious if the canopy turns during the line twist, because you may lose altitude rapidly. In some cases, a twist is not merely an incident, but becomes a serious malfunction. You may encounter extreme difficulty to clear a twist with higher wing loadings and when you are turning on your back. Should this occur, do not hesitate to cut away.

After the opening, be ready to steer the canopy away from the other traffic, either with the rear risers of the steering toggles. Once clear from traffic, check your canopy and your position relative to the landing area. Prepare for landing by following a trajectory that allows you to set up at an altitude sufficient for a final approach and landing facing into the wind.

During the descent, while still at a reasonable altitude, check the stall point of the canopy. This action will give you the information required to make a perfect landing flare.

Upon landing, flare the canopy symmetrically in such a way that maximum lift is achieved at the moment of touchdown. This will also reduce forward speed.

Do not turn low to the ground! Turns increase both vertical and forward speed. Without sufficient altitude your canopy will not be able to recover from the turn before landing.

Please remember it is more important to maintain a stable flight and make a proper landing flare, than to face the wind. When you are not absolutely sure that sufficient altitude remains to turn into the wind, continue to fly the canopy on its present heading, and execute a good flare.

DANGER! DO NOT MAKE A TURN CLOSE TO THE GROUND

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3 MAINTENANCE

Jumpers are encouraged to inspect their canopies during packing and to perform preventive maintenance. Follow the provided guidelines to inspect your canopy during normal use.

3.1 MAINTENANCE PROCEDURES:

Important points to note during the inspection are:

1. Visually inspect the canopy for defects or damage to the fabric, tapes and seams. Any holes or tears must be patched with an overlay or standard sew-in patch. No ripstop tape patches are allowed. Any damage that requires the replacement of an entire panel or cell must be done by the manufacturer.

2. Check that all slider stops are present, intact and secure. There are four slider stops, one on each of the outer B and C line groups.

3. Check that all line attachment tapes are secure (Bartack present).

4. Check suspension and steering lines continuity, and ensure that all connections and finger traps have been stitched. Lines that are worn or have broken strands must be replaced.

5. Inspect the connector links for serviceability, and check that they have been correctly tightened, or in case of soft links, verify their integrity.

6. Check the slider for correct installation; the reinforcing tape must be facing the canopy. Inspect the inner surface of the grommets for nicks and sharp edges. Inspect the fabric for wear and tear.

7. Using the manufacturer's manual as a guide, inspect the harness/container system into which the main canopy is to be packed. Check all stitching for completion. Inspect hardware for damage and corrosion (rust may be removed with a lightly oiled rag).

8. Inspect the pilot chute, bridle and deployment bag. Ensure that the bridle is securely fastened to both the pilot chute and bag.

10. POROSITY: Check porosity in the following cases

-After 250 uses

-After any use in abnormal conditions where a damage to fabric is suspected. If you detect any damage or unusual condition of the parachute system, contact your rigger or Aerodyne distributor before the next jump.

REPAIRS MUST BE MADE EITHER BY THE MANUFACTURER OR ITS AUTHORISED SERVICE PROVIDER /REPAIR CENTRE/PARA LOFT OR BY A QUALIFIED MASTER RIGGER!

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To make packing your main canopy easier, to prolong the life of the canopy and to prevent damage during packing, please observe the following instructions:

- A- Pack where the wind cannot affect your packing of the canopy.
- B- Do not pack on concrete or asphalt. Pack your canopy on a dry lawn or on a packing mat, thereby minimizing the wear on the lines, links and fabric.
- C- Inspect your canopy prior to packing. Look for any damage, wear and tear. Ensure that the lines have no twists, tangles or turns.

3.2 FREQUENCY OF MAINTENANCE PROCEDURES

Three months in normal conditions of storage (see next paragraph) or 50 jumps, whichever occurs first. If other than normal conditions are encountered, a shorter maintenance interval is recommended.

3.3 STORAGE

Textile and other materials used in the construction of all parachutes are sensitive to environmental elements. The parachute must be stored in a room where the temperature is kept between 15 degrees Celsius (59 °F) and 30 degrees Celsius (86 °F), and where the humidity is kept between 15% and 70%.

Further, the parachute must be protected from:

-Sunlight

-Temperatures of 93°C (200 °F) and above

-Acid and corrosive agents (e.g. car battery electrolyte)

-Rodents and pests

-Chlorine

-Smoke

When not in use, the equipment should be stored in its carry bag.

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	Maintenance Log								
Date	Done By	Job Description							

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