П	A	В	Č	D	Е	F	G	Н	I	J
	I. Bocal		Original bocal Anon21 Probably not, but there is a bocal on the bassoon			<u> </u>		Pr	udent5-Par	is
	dia reed end bocal string length (0, 1)		inside diameter of reed end of bocal length of bocal inserted into receiver		-	\vdash				
	metal bocal length top (0, 1)		meas. along top of bocal			t	†			
5	metal bocal length bot (0, 1)		meas. along bottom of bocal							
	dia wj end		inside diameter of bocal		-	-	-			
	bocal logic	2	if bocal logic = 0 => bocal is choke; if bocal logic = 1 =>choke in wing joint calc; if bo	ocal logic = 2	! => nc	boc:	ı al		2	
9						L				
10			·			Г				
11					-		-			
	II. Wing Joint Lengths		Anon21 no bocal receiver, a choke		 					
14	choke bore dia.	9.1	logic 1; bore diameter of choke; logic 0; either diameter bocal bottom or beginning of		om or i	eceiv	er		9.7	
15	receiver length (1, 0) (formally choke length)	45	logic 1; length of choke from top of wing joint; logic 0; length of receiver (same as str	ring length)					44	
16	wing joint length tenon length	505 50.5	total wing joint length, including tenon and socket tenon length						545 50.3	
18	tenon length	30.3	tenon length						30.3	
19	wj f2	207	dist top of wing to where tone hole enters bore [not at the center of the tone hole]						234	
20		287							306	
21	wi d	320							351	
23	Bore dia. Bottom of wing joint	15.1	Need to Average, usally oval						16	
24	Bore dia. top of boot joint small side	15.2							16.3	
25	Bore dia. top of boot joint large side	21.9							24.4	
26	III. Boot Lengths									
28	bj logic	1	logic=> if bj logic = 0 => plug removed; if bj logic = 1 => plug cannot be removed						1	
29	bj c	90	dist from top of boot to where topmost tone hole enter bore [not at center of tone hol	e]		Œ			95	
30		158			-		-		153	
32	bj a	197							197	
33	bjstotal [Needed for both boot logics]	432	total length of boot, include socket, along the small bore side						434	
34	bjltotal [Needed for both boot logics]	432	total length of boot, include socket, along large bore side						434	
	plug small [Need for logic 0 only]	0	plug thickness, large bore side plug thickness, small bore side		-		-		0	
37	plug large [Need for logic 0 only]	U	pray arrantess, small but a side						U	
38	boots [Needed for both boot logics]	395	hook length along s bore => bjs-septum length = boot - septum <= calc the septum						393.5	
39	bootl [Needed for both boot logics]	395	hook length along I bore => bjl-septum length = boot - septum <= calc the septum			F			393.5	
40	boots bottom [Needed for both boot logics]	19	use hook, dist of bore [dist on stick plus 7mm, diff between hook and bot of stick]; 1	2 ± 7	-				22	
42	boots bottom [Needed for both boot logics] bootl bottom [Needed for both boot logics]	19	use hook, dist of bore [dist on stick plus /mm, diff between hook and bot of stick]; 1 use hook, dist of bore [same as boots bot except tenon depth will be different]	<u> </u>		t			22	
43										
44	extreme bore [Needed for logic 1 only]	37.3	Anon21 vrfd small; Outside dia of plug [measured] = small bore dia + large bore dia	+ the septur	n width	1			42.1	
45 46	septum length exp [Need for logic 0 only]		dist. from very bottom of boot to septum [point between the large and small bore]		-	-				
47	septum length exp [Need for logic 0 only]	37	dist. From very bottom of boot to septum [bold between the large and small bore]	do not impu	t value	f			40.5	
48	septum length - do not imput value	37	if bj logic = 0 => septum = septum exp; if bj logic = 1 => septum = septum calc	do not impu					40.5	
49	show die oon't filterded fan het it it is it is	10.0	Appendix useful dayun have laugus bloom to be a section of the sec	lin ea-1	<u> </u>	<u> </u>			10.2	
	sbore dia sep* [Needed for both boot logics] Ibore dia sep* [Needed for both boot logics]	18.9 18.1	Anon21 vrfd down bore larger than up bore; septum small bore dia [assume = lbore of septum large bore dia [assume = sbore dia sep] [mesure if cork can be removed; for		-				19.3 20	
52	sep width exp [Need for logic 0 only]	0	septum width; direct measurement if remove plug			L			0	
53	sep width calc - do not imput value	0.3	septum width; calc. => extreme bore - sbore - lbore	do not impu					2.8	
54	sep width - do not imput value	0.3	if by logic = 0 => sep width = sep width exp; if by logic = 1 => sep width = sep width	do not impu	t value	\vdash	1		2.8	
55 56	bj q	345	dist from top of boot (socket) to where G hole enters bore [not at cent of tone hole]		l —				333	
57		143	dist from top of boot (socket) to where E1 hole enters bore [not at cent of tone hole]			匚			133	
58					\vdash	\vdash	\vdash			
59 60					-					
61					L		L			
62										
	IV. Tone Hole Diameters	5.5			-	-			5.9	
64 65	e e	6.3							5.9	
66	d	5.5							5.4	
67						\vdash			0.7	
68 69	h	7.4 6.2				 			8.7 7.1	
70	a	5.6							6.1	
71	9	8.4			\vdash				9.6	
72	11	9.6			—	\vdash	 		9.6	
74		11.5	e1 tone hole dia, on long joint [need to average NS and EW dias, NS usually greater]			Ĺ			10.5	
75		9.8	d1 tone hole dia, on long joint [need to average NS and EW dias, NS usually greater]						8.5	
76 77	C1	14.9	c1 tone hole dia, on long joint [need to average NS and EW dias, NS usually greater]		-	 	1		12.4	
78					L	L	L			
79			·							
80					-	├	-			
	V. Tone Hole Depths				 					
83	f2	32.7							31.5	
84	e	30.5				<u> </u>			26	
85 86	u	30.5			—				31.3	
87	с	25		<u> </u>					22.8	
88		25.7							21	
90	a	12.4	meas along bot tone hole wall [north wall, toward reed,tone hole usually at angle]		-				22.4 13.5	
90	f1	12.4 20	meas along bot tone note wall [north wall, toward reed, tone note usually at angle] meas along east side tone hole wall [north wall, toward reed, t hole usually at angle]						18.9	
92										
93 94	e1	9	e1 tone hole depth;meas east/west with deapth gauge [at center, or shortest dist]		\vdash	F			9.4	
94	d1 c1	9.2 8.5	d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist] c1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist]		-				7.5	
96		0.5	ez cono noto depart, medo edag mese man deapar gauge (at center, or silortest dist)						,.,	
97										
98					<u> </u>	\vdash	1			
99 100					-					
101	VI. Long Joint		Anon21 There is a table along the long joint							
102	lg_length	580	total length of long joint						586	
	lg_tenon_bot	47.2 21.6	length bottom tenon on long joint [tenon going into boot joint] Anon21 OOR 21.2 x 22; long joint bottom tenon bore diameter [tenon going into boo	t ioint1	-	\vdash	-		50 23.7	
	li bot bore lj_top_bore	31.3	Anon21 OOR 21.2 x 22; long joint bottom tenon bore diameter [tenon going into boo Anon21 very OOR 29.7 x 32.8; long joint top tenon bore diameter [tenon going into bottom properties of the control of						32.5	
106	lg_tenon_top	42.2	length top tenon on long joint [tenon going into bell]			L			40.4	
	e1 distance	56	dist long joint tenon to e1 [from bot of tenon to where tone hole enters bore]		<u> </u>	<u> </u>			60	
108	d1 distance c1 distance	254 475	dist long joint tenon to d1 [from bot of tenon to where tone hole enters bore] dist long joint tenon to c1 [from bot of tenon to where tone hole enters bore]		 	\vdash	 		258 468	
		1/3	and any some contains to the professional pot of tention to which either finite enters build			f			100	
110										

A	В	c	D	_	F	G	н	T	, ,
112	В	C	U		Г	G	п	1	J
113									
114									
115 VII. Bore diameters at Tone Holes									
116 f2	11.7							12.3	
117 e	12.5							13.4	
118 d	13.1							13.8	
119 120 c	15.7							17	
120 c	16.6							17.6	
122 a	17							18.1	
123 g	19.2							20.5	
124 f1	21.5							23.1	
125									
126 e1	22.7	e1 tone hole bore diameter on long joint						24.5	
127 d1	25.5	d1 tone hole bore diameter on long joint						27.2	
128 c1 129	30.2	c1 tone hole bore diameter on long joint						30.3	
130									
131									
132									
133									
134 VIII. Bell		Anon21 No tone hole on Bell							
135 bell logic	1	If bell logic = 0 => normal conical bore; if bell logic = 1 => inverted concial bore; if	bell logic = 2	2 => b	ell ex	pansion		1 25 :	
136 bell_length (0, 1, 2)	346 32.7	total length of bell [lines 141 + 144 = line 136]			-			334	
137 bell_bot_bore (0, 1, 2) 138 bell top bore 0, (1, 0, 2)	28.2	dia bore at the bottom of bell [end with socket] dia bore at the top of bell [where low Bb exits]						33.8 30.9	
138 bell_top_bore 0, (1, 0, 2) 139 bell_center_bore (only for logic 2)	20.2	dia bore at the top of bell [where low bb exits] dia bore at max center of expansion						30.9	
140 bell_wall (only for logic 2)		bell wall thickness, Just for David							
141 bell_bot_bore_expansion (only for logic 2)		dist of bottom to maxium of expansion [including bell socket length,if bell logic=0 =>	1001						
142 Outside diameter of wood at expansion		Just for David							
143 bell tenon (0, 1, 0, 2)	41.7	bell socket length						41.2	
144 bell_expansion_length (only for logic 2)		distance of maxium expansion to top of bell [where Bb exits]							
145 belfig	34.5	Anon21 has an ivory crown; about 10mm more than line 138						40	
146 147									
148 IX. PITCH									
149 pitch	415	input the historical pitch of the bassoon, must input value, best guess						415	
150 freq_init	380	Initial frequency range variable						380	
151 Delta frequency	2	frequency increment parameter						2	
152 Number of frequencies	60	number of frequencies to scan for min chi sq						60	
153 Frequency adjust	1.05	frequency adjustment parameter						1.05	
154 X. Title 155 title		Decree Calculation Accord O Dection Was WOD DANA							
155 title 156		Bassoon Calculation: Anon21-O-Peebles-Wg1-WOB-DNM							
157		Notes on long joint bore: Anon21 good							
158		Notes on boot joint bore: Anon21 good Notes on boot joint bore: Anon21 normal, does not expand normally							
159 XI. Bore Diameter Locations		Notes on wing join bore: Anon21 good			L				
160	18	Number of diameters						21	
161 Bell Bore	9.1	Initial bore diameter						9.7	
162 32.7mm dia. at socket	385	dist1; measured from the bottom of the wing joint- 10mm			-	1		475	
163 32mm rod 75mm from socket	315	dist2; measured from the bottom of the wing joint- 11mm			-	1		380	
164 31mm rod 160mm from socket 165 30mm rod 210mm from socket	285 190	dist3; measured from the bottom of the wing joint- 12mm dist4; measured from the bottom of the wing joint- 13mm			 	1		335 260	
166 29mm rod 305mm from socket	40	Anon21 vrfd gap; dist5; measured from the bottom of the wing joint- 14mm				1		152	
167 28.2mm dia.at bell end	0	dist6; measured from the bottom of the wing joint- 15mm	Bottom wing	15.1		1		90	
168	112	dist7; measured from the top of the bootjoint - small bore side- 16mm	top boot sma	15.2		2		0	
169	195	dist8; measured from the top of the bootjoint - small bore side- 17mm	top boot larg	21.9		2		110	
170	290	dist9; measured from the top of the bootjoint - small bore side- 18mm				2		180	
171	367	dist10; measured from the top of the bootjoint - small bore side- 19mm	sbore dia sei	18.9	-	3		285	
172	325	dist11; measured from the top of the bootjoint - large bore side- 20mm	Ibore dia sep	18.1	-	3		0	
173 174	240 555	dist12; measured from the top of the bootjoint - large bore side- 21mm dist13; measured from the top of the bootjoint - large bore side- 22mm				4		287 235	
175	508	dist13; measured from the top of the bootjoint - large bore side- 22mm dist14; measured from the top of the bootjoint - large bore side- 22mm				4		145	
176	418	dist15; measured from the top of the long joint- 24mm	lj bot bore	21.6		4		560	
177	365	dist16; measured from the top of the long joint- 25mm				4		475	
178	302	dist17; measured from the top of the long joint- 26mm				4		382	
179	238	dist18; measured from the top of the long joint- 27mm				4		332	
180	224	dist19; measured from the top of the long joint- 28mm			-	4		285	
181	200	Anon21 vrfd small gap; dist20; measured from the top of the long joint- 29mm			-	4		175	
182 183	0	dist21; measured from the top of the long joint- 30mm dist22; measured from the top of the long joint- 31mm				4		130 80	
184	0	dist23; measured from the top of the long joint- 31mm dist23; measured from the top of the long joint- 32mm	lj top bore	31 3		4		22	
20.0	J	paistes, measured from the top of the long Joint- 32fffff	-j_top_bore	J1.J		4			