2 c 3 b	A	В	С	D	E	F	G	Н	T
2 c 3 b						_			
3 t	I. Bocal dia reed end		Original bocal ProwseJ2 No inside diameter of reed end of bocal	 		1			Prowse1
	oocal string length (0, 1)		length of bocal inserted into receiver						
	metal bocal length top (0, 1)		meas. along top of bocal						
	metal bocal length bot (0, 1) dia wi end		meas. along bottom of bocal	1		1			
6 c	ara wj enu		inside diameter of bocal			1			
8 t	pocal logic	2	if bocal logic = 0 => bocal is choke; if bocal logic = 1 =>choke in wing joint calc;	if bocal logic=2	=>no b	ocal			2
9									
10						-			
11 12	+			 		1			
	II. Wing Joint Lengths		bocal receiver: ProwseJ2, no bocal reciever						
14 (choke bore dia.	10.2	logic 1; bore diameter of choke; logic 0; either dia. bocal bottom or beginning of bo		r receiv	ver			10.4
	receiver length (1, 0) (formally choke length) wing joint length	51 524	logic 1; length of choke from top of wing joint; logic 0; length of receiver (same as ProwseJ2, vrfd long; total wing joint length, including tenon and socket;	string length)	_	-			48 524
	enon length	44.1	tenon length						44.4
18									
19 v		227	dist from top of wing to where tone hole enters bore [not at the center of the tone	hole]					225
20 v 21 v		294 330							290 328
22	N) G	330							320
	Bore dia. Bottom of wing joint	16.9	Need to Average, usally oval; ProwseJ2 no						16
	Bore dia. top of boot joint small side Bore dia. top of boot joint large side	16.4 24.2	ProwseJ2 boot smaller than bottom of wing	-		+-			16.6 24
26		47.4				L	L		27
27 1	III. Boot Lengths		-	L					
	oj logic	1	logic=> if bj logic = 0 => plug removed; if bj logic = 1 => plug cannot be removed dist from top of boot to where topmost tone hole enter bore [not at center of tone]			1			1 02
	oj c oj b	96 161	unsernous cop or book to where topinost tone note enter bore [not at center of tone	noiej		1			92 163
31 b		196							200
32	Catalan I Nice and See horte to a 1 a 2 a 2	420	total length of host include applies along the could be added			\vdash			420
	pjstotal [Needed for both boot logics] pjltotal [Needed for both boot logics]	430 430	total length of boot, include socket, along the small bore side total length of boot, include socket, along large bore side	 		1			429 429
	blug small [Need for logic 0 only]	0	plug thickness, large bore side			L			0
36 p	olug large [Need for logic 0 only]	Ō	plug thickness, small bore side						0
37 38 b	poots [Needed for both boot logics]	393	hook length along s bore => bjs-septum length = boot - septum <= calc the septu	Im.	-	1	-		393
	poots [Needed for both boot logics] pootl [Needed for both boot logics]	393	hook length along s bore => bjs-septum length = boot - septum <= calc the septu hook length along I bore => bjl-septum length = boot - septum <= calc the septu						393
40									
41 t	poots bottom [Needed for both boot logics]	17	use hook, dist of bore [dist on stick plus 7mm, diff between hook and bot of stick]	11 + 7 = 17		1			13
42 b	pootl bottom [Needed for both boot logics]	17	use hook, dist of bore [same as boots bot except tenon depth will be different]			1			13
44 6	extreme bore [Needed for logic 1 only]	44.9	ProwseJ2 Vrfd large, thick boot;Outside dia of plug=small bore dia+large bore dia-	+the septum wi	dth				45.6
45						1			
	septum length exp [Need for logic 0 only]	0 37	dist. from very bottom of boot to septum [point between the large and small bore] dist. From very bottom of boot to spetum [bjl - bootl]	do not imput v	alue	1			0 36
	septum length caic - do not imput value	37	if bj logic = 0 => septum = septum exp; if bj logic = 1 => septum = septum calc			1			36
49									
	sbore dia sep* [Needed for both boot logics]	19.6	septum small bore dia [assume = lbore dia sep]	for Logic 03		 			19.1 19.1
	bore dia sep* [Needed for both boot logics] sep width exp [Need for logic 0 only]	19.9	septum large bore dia [assume = sbore dia sep] [mesure if cork can be removed; septum width; direct measurement if remove plug	TOI: LOGIC U]		1			19.1
53	sep width calc - do not imput value	5.4	septum width; calc. => extreme bore - sbore - lbore	do not imput v					7.4
	sep width - do not imput value	5.4	if bj logic = 0 => sep width = sep width exp; if bj logic = 1 => sep width = sep w	do not imput v	alue	\perp			7.4
55 56 b	oj g	359	dist from top of boot (socket) to where G hole enters bore [not at cent of tone hole	1	-	1			361
57 t	oj f1		dist from top of boot (socket) to where F1 hole enters bore [not at cent of tone hole			L			150
58									
59 60						-			
61	+								
62									
	IV. Tone Hole Diameters	5.3		1	-	1			4
65 6	-	6.3				1			6
66 0	d	5.4							4.3
67 68		6.0				1-			6.5
69 b		7.1				1			6.6 6.2
70 a		6.1							4.8
71 c		8.8		1		1			8.8 9.8
72 f 73	-	10.4				1			9.0
74 e	e1	11.3	e1 tone hole dia, on long joint [need to average NS and EW dias, NS usually greate						11.8
75 c		10.7	d1 tone hole dia, on long joint [need to average NS and EW dias, NS usually great	er]		1			10.5
76 c	:1	13.1	c1 tone hole dia, on long joint [need to average NS and EW dias, NS usually greate	erj		1			13
78									
79									\Box
80 81				-		1			
	V. Tone Hole Depths					L	L		
83 f	2	26.5	-						24
84 e	1	28.8		1		 			26.5
86		27.8				1			24
87 c		22							25.5
88 b		23.8		<u> </u>		1			26.7
89 a	1	22.6 14.5	meas along bot tone hole wall [north wall, toward reed,tone hole usually at angle]			1	-		23.8 18
91 f		25.8	meas along east side tone hole wall [north wall, toward reed, thole usually at angle]			L			21.5
92			ProwseJ2 vrfd; long joint tone holes of normal length						
93 6	91	9.2 9.6	e1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist]		-	 			17.1 15.1
94 c	:1	10	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						12.7
96			, , , , , , , , , , , , , , , , , , ,						,
97						\bot			$\vdash = = = = = = = = = = = = = = = = = = =$
98 99				-		1			
100									
	/I. Long Joint		ProwseJ2 There is a normal table along long joint						
	g length	574	total length of long joint		L	1			577

	Α	В	C	D	Е	F	G	Н	ī
103	lg tenon bot		length bottom tenon on long joint [tenon going into boot joint]	J	<u> </u>	+ -			50.3
	lj bot bore		long joint bottom tenon bore diameter [tenon going into boot joint]			1		1	24.9
105	j_top_bore	30.5	long joint top tenon bore diameter [tenon going into bell]						30.6
106	g_tenon_top	36.4	length top tenon on long joint [tenon going into bell]						36.6
	e1 distance	56	dist long joint tenon to e1 [from bot of tenon to where tone hole enters bore]						58
	d1 distance		dist long joint tenon to d1 [from bot of tenon to where tone hole enters bore]						247
	c1 distance	446	dist long joint tenon to c1 [from bot of tenon to where tone hole enters bore]			-			447
110						-			
111									
112 113						-			
114						+			
	VII. Bore diameters at Tone Holes					1			
116		12.3							12
117	e	13.1							13.1
118	d	13.8							13.3
119									
120	С	16.5				<u> </u>			16.4
121	b	17.6							17.1
122	a	18.1							18.2
123 124	9	20			-	+	-		19.8
125	11	22.8				+	-		23
126	01	24.1	e1 tone hole bore diameter on long joint			+	 	 	24.1
127	d1		d1 tone hole bore diameter on long joint				1		27.2
	c1		c1 tone hole bore diameter on long joint						35.1
129	-						1	İ	
130									
131									
132						\perp			
133							ļ		
	VIII. Bell		ProwseJ2 There is not a bell tone hole		<u>. </u>	<u> </u>	<u> </u>		
	bell logic	0	If bell_logic=0=>normal conical bore; if bell_logic=1=>inverted concial bore; if be	ll_logic=2=>be	ell expa	ansior	1		0
	bell_length (0, 1, 2)		total length of bell [lines 141 + 144 = line 136]			1	 		314
	bell_bot_bore (0, 1, 2) bell_top_bore 0, (1, 0, 2)		dia bore at the bottom of bell [end with socket] ProwseJ2 vrfd end of caliper jaws 38.2mm; dia bore at the top of bell [where low	Bh exits?	_	+	 		30.3 43
	bell center bore (only for logic 2)		dia bore at max center of expansion	DD CAILS]		1			73
	bell_wall (only for logic 2)		bell wall thickness, Just for David						
	bell_bot_bore_expansion (only for logic 2)		dist of bottom to maxium of expansion [including bell socket length,if bell logic=0	=>100]			1		
	Outside diameter of wood at expansion		Just for David			L			
143	bell_tenon (0, 1, 0, 2)	36.9	bell socket length						37
144	bell_expansion_length (only for logic 2)		distance of maxium expansion to top of bell [where Bb exits]	•					
	Bellflg	70.5							57
146					_	1	-		
147	TV PITCH					-	<u> </u>	-	
	IX. PITCH	420	input the historical pitch of the basseen and insultant solutions.		_	1	 		420
	pitch freq_init	430 380	Input the historical pitch of the bassoon, must input value, best guess Initial frequency range variable		-	1	l		430 380
	Delta frequency		Initial frequency range variable frequency increment parameter			1	 	 	2
	Number of frequencies		number of frequencies to scan for min chi sq				l -		60
	Frequency adjust		frequency adjustment parameter						1.05
154			•						
155			Bassoon Calculation: ProwseJ2-O-Edinburgh3318-Wg1-WOB-DNM						
156						\perp			
157			Notes on long joint bore: ProwseJ2 normal OOR in places						
158	W. B B		Notes on boot joint bore: ProwseJ2 good			1	ļ		
159	XI. Bore Diameter Locations	10	Notes on wing joint bore: ProwseJ2 good		-	+	 	-	10
160 161	Bell Bore		Number of diameters Initial bore diameter		-	1	l		19 10.4
162	30.5mm dia. at socket		dist1; measured from the bottom of the wing joint- 10mm			1	1		0
	30mm rod 130mm from socket		dist2; measured from the bottom of the wing joint- 11mm				1		368
	31mm rod 70mm from bell top end		dist3; measured from the bottom of the wing joint- 12mm			1	1		275
	32mm rod 50mm from bell top end	250	dist4; measured from the bottom of the wing joint- 13mm				1		250
166	33mm rod 40mm from bell top end	178	dist5; measured from the bottom of the wing joint- 14mm				1		155
	34mm rod 35mm from bell top end		dist6; measured from the bottom of the wing joint- 15mm	Bottom wing jt	16.9		1		115
168	35mm rod 30mm from bell top end	0	dist7; measured from the top of the bootjoint - small bore side- 16mm	top boot small	16.4		2		0
	36mm rod 25mm from bell top end		dist8; measured from the top of the bootjoint - small bore side- 17mm	top boot large	24.2	1	2		115
170	38.2mm dia. at bell end		dist9; measured from the top of the bootjoint - small bore side- 18mm	alaana Waran	10.5	\vdash	2	-	170
171 172			dist10; measured from the top of the bootjoint - small bore side- 19mm	sbore dia sep	19.6 19.9		2		335 350
173			dist11; measured from the top of the bootjoint - large bore side- 20mm dist12; measured from the top of the bootjoint - large bore side- 21mm	Ibore dia sep Hook Length	393		3		
174			dist13; measured from the top of the bootjoint - large bore side- 21min dist13; measured from the top of the bootjoint - large bore side- 22mm	HOOK LENGTH	393	+	3		288 255
175			dist13; measured from the top of the bootjoint - large bore side- 22mm dist14; measured from the top of the bootjoint - large bore side- 23mm			t	3		167
176			dist15; measured from the top of the long joint - 24mm	lj_bot_bore	24.8	1	4		525
177			dist16; measured from the top of the long joint- 25mm	,			4		477
178			dist17; measured from the top of the long joint- 26mm			L	4		365
179		370	dist18; measured from the top of the long joint- 27mm				4		336
180		170	dist19; measured from the top of the long joint- 28mm				4		220
181			dist20; measured from the top of the long joint- 29mm				4		180
182			dist21; measured from the top of the long joint- 30mm			_	4		80
183			dist22; measured from the top of the long joint- 31mm			1	4		0
184		0	dist23; measured from the top of the long joint- 32mm	lj top bore	30.5	4	4	1	0