Description A									
The control of the co	П		В	С	D	E	F	G	Н
Second post principal control of the control of t			A 1			-			
A process independent one (0, 1)			4.1						
\$ mean faceous feeding too (0, 1) 277 mean, allowed process. \$ 2.5 miles continued to because \$ 2.5 miles \$ 2.5 miles continued to because \$ 2.5 miles			343						
A books larger 1			327						
The content of the	6	dia wj end	9.8	inside diameter of bocal					
The content of the	7								
1.		bocal logic	2	if bocal logic = 0 => bocal is choke; if bocal logic = 1 =>choke in wing joint ca	lc; if bocal log	gic = 2	=> n	bocal	
Fig. Section									
The process of the									
List choice size data. The recover integring (1, 5) (formally choice length) The recover integring (1, 5) (formally cho	12								
Section of record specific (p. 0) (promptly choice length)									
Comparison of the comparison							m or	receiver	
1 1 2 2 2 2 2 2 2 2							l sock	at: varif	ied
123 124 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125					, including te	lion and	3000	et, veili	ieu
22 will not contained to the contained t									
2				dist top of wing to where tone hole enters bore [not at the center of the tone h	ole]				
Section 1.5									
2 Sever da. Section of using poster 1.5.1 Sever to average, using two offset freshire than using ferrors 1.5.1 Sever to average, using two closed and service than using ferrors 1.5.1 Severage than using fer		wj d	285	Palanca1, all finger hole positions vrfd short, wing broken off					
28. Bowe dis top of boot joint treatly side 29. This is an average, see below at 29th more measurements, bow is obtained. 29. This is an average, see below at 29th more measurements, bow is obtained. 29. This is an average, see below at 29th more measurements, bow is obtained. 29. This is an average, see below at 29th more measurements, bow is obtained. 29. This is an average, see below at 29th more measurements, bow is obtained by a see an average of the second of the seco		Bore dia Bottom of wing joint	16.3	Need to Average Justily eval: Palanca1 no					
The Section of the Content of the									
Description Section	25								
25 30 c 89 dist from top of boot to where topmost tone hole enter bore [not at center of tone hole] 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 19			-	logica a if hi logica - O - a plug yemovod if hide-in the relief	avad.				
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32 bistoral [Needed for both boot logics] 429 Palarnal viril dishort; bital length of bod, include socket, along three amail bore side									
32 obtata Needed for both boot logics 420 total engine for boot, include socket, along large bore side 1 obtata 1	32								
35 obus arreal (Need for loops (a) only) 50 obus arreal (Need for loops (a) only) 51 obus arreal (Need for loops (a) only) 52 obus (Need for both boot logics) 53 obus (Need for both boot logics) 54 obus (Need for both boot logics) 55 obus (Need for both boot logics) 56 obus (Need for both boot logics) 57 obus (Need for both boot logics) 58 obus (Need for both boot logics) 59 obus (Need for both boot logics) 50 obus (Need for both boot logics) 50 obus (Need for both boot logics) 50 obus (Need for logic) 51 obus (Need for logic) 52 obus (Need for logic) 53 obus (Need for logic) 54 obus (Need for logic) 55 obus (Need for logic) 56 obus (Need for logic) 57 obus (Need for logic) 58 obus (Need for logic) 59 obus (Need for logic) 50 obus (Need					ide				
30 oots (Needed for both boot logics) 31 oots (Needed for both boot logics) 32 oots (Needed for both boot logics) 33 oots (Needed for both boot logics) 34 oots (Needed for both boot logics) 35 oots (Needed for both boot logics) 36 oots (Needed for both boot logics) 37 oots (Needed for both boot logics) 38 oots (Needed for both boot logics) 39 oots (Needed for both boot logics) 30 oots (Needed for both boot logics) 30 oots (Needed for both boot logics) 31 oots (Needed for both boot logics) 32 oots (Needed for logic 1 only) 33 oots (Needed for logic 1 only) 42.3 Oots (Needed for logic 1 only) 42.4 Oots (Needed for logic 1 only) 42.5 Oots (Needed for logic 1 only) 42.6 Oots (Needed for logic 1 only) 42.6 Oots (Needed for logic 1 only) 42.7 Oots (Needed for logic 1 only) 43 oots (Needed for logic 1 only) 44.6 Oots (Needed for logic 1 only) 45.7 Oots (Needed for logic 1 only) 46.8 Oots (Needed for logic 1 only) 47.8 Oots (Needed for logic 1 only) 48.8 Oots (Needed for logic 1 only) 49 oots (Needed for logic 1 only) 49 oots (Needed for logic 1 only) 40 oots (Needed for logic 1 only) 40 oots (Needed for logic 1 only) 40 oots (Needed for logic 1 only) 41 oots (Needed for logic 1 only) 42.5 Oots (Needed for logic 1 only) 42.5 Oots (Needed for logic 1 only) 42.6 Oots (Needed for logic 1 only) 42.6 Oots (Needed for logic 1 only) 42.7 Oots (Needed for logic 1 only) 42.8 Oots (Needed for logic 1 only) 42.9 Oots (Needed for									
30									
33 book linkeded for both book logics] 34 book bottom. [Needed for both book logics] 35 book bottom. [Needed for both book logics] 36 book bottom. [Needed for both book logics] 37 use hook, dist of bore [Safts on sicks plus 7mm, diff between hook and boot of sick] 27 v v v book, dist of bore [Safts on sicks plus 7mm, diff between hook and boot of sick] 27 v v v v v v v v v v v v v v v v v v		plug large [Need for logic o only]	- 0	plug trickless, smail bore side					
South Determine (Needed for both boot logics) 27 use hook, dist of bore [dist on stick plus 7mm, diff between hook and bot of stick) 20 + 7 = 27		boots [Needed for both boot logics]	381	hook length along s bore => bjs-septum length = boot - septum <= calc the se	eptum				
43 boot bottom (Needed for both boot logics) 27 use hook, dist of bore (jast on stick plus 7mm, diff between hook and bot of stick) 20 - 7 = 27 use hook, dist of bore (same a boots bot except them depth will defirent) 43 described for logic 1 only) 42.3 Outside dia of plug (measured) = small bore dia + large bore dia + the septum width 42.3 Courside dia of plug (measured) = small bore dia + large bore dia + the septum width 42.4 septum length eap (Need for logic 0 only) 42.3 Outside dia of plug (measured) = small bore dia + large bore dia + the septum width 42.4 septum length calc - do not imput value 43 dist, from very bottom of boot to septum [ploth between the large and small bore] 43.4 septum length - do not imput value 44.5 dist, from very bottom of boot to septum [ploth between the large and small bore] 44.5 dist, from very bottom of boot to septum [ploth between the large and small bore] 44.5 dist, from very bottom of boot to septum [ploth between the large and small bore] 44.5 dist, from very bottom of boot to septum [ploth between the large and small bore] 44.5 dist, from very bottom of boot to septum [ploth between the large and small bore] 45.5 disp width calc - do not imput value 45.6 dist, from top of boot (septum floth) boot septum = large and small bore] 45.6 dist, from top of boot (septum floth) boot septum = large and small bore] 45.6 dist, from top of boot (septum floth) boot septum = large and small bore] 45.7 septum small bore dia [assume = libore dia [ass		bootl [Needed for both boot logics]	381	hook length along I bore => bjl-septum length = boot - septum <= calc the se	ptum				
setume bore (Needed for both boot logics) deleted by the property of the prope									
42.3 Outside dia of plug [measured] = small bore dia + large bore dia + the septum width 43.5 deptum length exp [Need for logic 0 only] 42.3 Outside dia of plug [measured] = small bore dia + large bore dia + the septum width 43.6 deptum length exp [Need for logic 0 only] 43.6 deptum length exp [Need for logic 0 only] 44.6 deptum length exp [Need for logic 0 only] 45.6 deptum length exp [Need for logic 0 only] 46.7 deptum length exp [Need for logic 0 only] 46.8 deptum length exp [Need for logic 0 only] 46.8 deptum length exp [Need for logic 0 only] 47.6 deptum length exp [Need for logic 0 only] 48.6 septum width exp [Need for logic 0 only] 48.6 septum width exp [Need for logic 0 only] 49.8 width exp (Need for logic 0 only] 50.9 bore dia sep? [Need for logic 0 only] 51.8 septum length exp [Need for logic 0 only] 52.9 septum width; direct measurement if remove plug 53.0 septum width; calc = 2 extend logic large plug large large plug lar					ck] 20 + 7 =	27			
43 Stevene born (Needed for logic 1 only) 42.3 Outside did of plug (Ineasured) = small born dia + large born dia + the septum width 45 septum length exp (Needed for logic 0 only) 0 dist, from very bottom of boot to septum (point between the large and small born) 2 septum length caic - do not imput value 45 steptum length - do no		booti bottoiii [Needed for botii boot logics]	21	use nook, dist of bore [same as boots but except tenori deptil will be different]					
45 Septum length exp Need for logic 0 only 0 dist. from very bottom of boot to septum point between the large and small bore		extreme bore [Needed for logic 1 only]	42.3	Outside dia of plug [measured] = small bore dia + large bore dia + the septur	n width				
42 Septum length calc - do not imput value 48 dist. From very bottom of boot to spetum [9] - boot 40 40 40 40 40 40 40 4									
## of by Common									
18.6									
18.5 Spire dia sep* Needed for both boto logics 18.6 Septem sep* Needed for both boto logics 18.5 Septem sep* Needed for logic 0 only 0 Septem width; direct measurement if remove plug do not imput value 18.5 Septem sep* S		septum length - do not imput value	48	if by logic = 0 => septum = septum exp; if by logic = 1 => septum = septum c	do not imput	value			
State Needed For Deth boot (poles 18.5 septum large bore dia (assume = store dia sept nesure if cork can be removed; for Logic 0		shore dia sep* [Needed for both boot logics]	18.6	Palanca1, larger than up bore; septum small bore dia [assume = lbore dia sep]					
53 sep width calc - do not imput value 5.2 septum width; calc, -> extreme bore - sbore - sbore - sbore 50 septum width calc - do not imput value 5.5 septum width; calc, -> extreme bore - sbore - sbore - sbore 50 septum width explicit 50 septum width ex						0]			
54 sep width - do not imput value 5.2 ft 10gic = 0 => sep width = sep									
Section Sect									
339 dist from top of boot (socket) to where G hole enters bore [not at cent of tone hole]		sep width - do not imput value	5.2	ir bj logic = 0 => sep width = sep width exp; ir bj logic = 1 => sep width = se	do not impui	value			
141 dist from top of boot (socket) to where F1 hole enters bore [not at cent of tone hole]		bi a	339	dist from top of boot (socket) to where G hole enters bore [not at cent of tope	hole1				
Section Sect									
Solid									
1									
Sample S									
S. S. S. S. S. S. S. S.									
6.3 6.1 6.6 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1		IV. Tone Hole Diameters							
66 d									
Section		e							
Second S	67	u	0.1			-			
1		С	8.6						
1	69	b	7.4						
1		a							
Palanca1, long joint tone holes small		g f1				-			
14		11	0.3	Palanca1, long joint tone holes small					
1	74	e1	9.1		eater]				
77	75		8.3	d1 tone hole dia, on long joint [need to average NS and EW dias, NS usually gr	eater]				
78		c1	11.2	c1 tone hole dia, on long joint [need to average NS and EW dias, NS usually gr	eater]				
79						-			
80							\vdash		
S1									
33 2 30.1 Palanca1, tone hole not drilled exactly into center of bore	81								
84 e 33 85 d 32 86 s 87 c 23.8 88 b 24.2 89 a 24.3 90 g 16.7 meas along bot tone hole wall [north wall, toward reed,tone hole usually at angle] 91 f1 20.7 meas along east side tone hole wall [north wall, toward reed,t hole usually at angle] 92 93 e1 5.5 e1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist] 94 d1 5.6 d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist]									
S5 d 32		12		Palanca1, tone hole not drilled exactly into center of bore					
86		e d							
87 c 23.8		u	32						
88 b 24.2 89 a 24.3 90 g 16.7 meas along bot tone hole wall [north wall, toward reed,tone hole usually at angle] 91 f1 20.7 meas along east side tone hole wall [north wall, toward reed,t hole usually at angle] 92 meas along east side tone hole wall [north wall, toward reed,t hole usually at angle] 93 e1 5.5 e1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist] 94 d1 5.6 d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist]		С	23.8						
90 g 16.7 meas along bot tone hole wall [north wall, toward reed,tone hole usually at angle] 91 ft 20.7 meas along east side tone hole wall [north wall, toward reed,t hole usually at angle] 92 93 e1 5.5 e1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist] 94 d1 5.6 d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist]	88	b	24.2						
91 f1 20.7 meas along east side tone hole wall [north wall, toward reed,t hole usually at angle] 92 93 e1 5.5 e1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist] 94 d1 5.6 d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist] 95.6 d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist] 97.0 d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist] 98.0 d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist] 99.0 d1 d1 d1 d2 d2 d2 d2 d2 d2 d2 d3		a							
92 93 e1 5.5 e1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist] 94 d1 5.6 d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist]	90	g f1							
93 e1 5.5 e1 tone hole depth;meas east/west with deapth gauge [at center, or shortest dist] 94 d1 5.6 d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist]	93	11	20./	inieas along east slue tone noie wall [north wall, toward reed,t hole usually at a	nglej		\vdash		
94 d1 5.6 d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist]	93	e1	5.5	e1 tone hole depth;meas east/west with deapth gauge [at center, or shortest of	list]				
		d1	5.6	d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest	dist]				
	95	c1	5.1						

_	, , , , , , , , , , , , , , , , , , ,	-		-		-		
96	A	В	C	D	Е	F	G	Н
97								
98								
99								
100 101	VI. Long Joint		Palanca1, There is a table along the long joint					
102	lg_length	605	total length of long joint					
103	lg_tenon_bot	41.7	length bottom tenon on long joint [tenon going into boot joint]					
	lj_bot_bore lj_top_bore	25.2 30.4	long joint bottom tenon bore diameter [tenon going into boot joint] long joint top tenon bore diameter [tenon going into bell]					
	Ig_tenon_top	30.4	Palanca1, vrfd short; length top tenon on long joint [tenon going into bell]					
107	e1 distance	46	dist long joint tenon to e1 [from bot of tenon to where tone hole enters bore]					
	d1 distance	256	dist long joint tenon to d1 [from bot of tenon to where tone hole enters bore]					
110	c1 distance	482	dist long joint tenon to c1 [from bot of tenon to where tone hole enters bore]					
111								
112								
113 114								
	VII. Bore diameters at Tone Holes							
116	f2	12.5						
117	e	13.1						
118 119	d	13.5				-		
120	c	16.1				<u> </u>		
121	b	16.9						
122	a	17.5						
123 124	g f1	19 24.1						
125	11	27.1						
126		25.2	e1 tone hole bore diameter on long joint					
127		28.1	d1 tone hole bore diameter on long joint					
128 129	c1	29.4	c1 tone hole bore diameter on long joint			 		
130								
131								
132								
133 134	VIII. Bell		Palanca1, No tone hole on bell					
	bell logic	0	If bell_logic = 0 => normal conical bore; if bell_logic = 1 => inverted concial b	ore; if bell_lo	gic = 2	=> t	ell expa	nsion
	bell_length (0, 1, 2)	279	Palanca1, vrfd short; total length of bell [lines 141 + 144 = line 136]					
	bell_bot_bore (0, 1, 2) bell_top_bore 0, (1, 0, 2)	32.8	dia bore at the bottom of bell [end with socket] Palanca1, very OOR; dia bore at the top of bell [where low Bb exits]			-		
	bell_top_bore 0, (1, 0, 2) bell_center_bore (only for logic 2)	36	dia bore at max center of expansion					
140	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]				
142 143	Outside diameter of wood at expansion bell tenon (0, 1, 0, 2)	32	Just for David bell socket length					
	bell_expansion_length (only for logic 2)	32	distance of maxium expansion to top of bell [where Bb exits]					
145	belflg	44	Usually about 10mm more than line 138					
146 147								
	IX. PITCH							
149	pitch	440	input the historical pitch of the bassoon, must input value, best guess					
	freq_init	380	Initial frequency range variable					
151		60	frequency increment parameter					
152 153	Number of frequencies Frequency adjust	1.05	number of frequencies to scan for min chi sq frequency adjustment parameter					
154	X. Title							
	title		Bassoon Calculation: Palanca1-O-NazionaleRoma-Wg1-WOB-DNM					
156 157			Notes on long joint bore: Palanca1 in bad shape, OOR; very out of round			1		
158			Notes on boot joint bore: Palanca1; a bit OOR					
_	XI. Bore Diameter Locations		Notes on wing join boret: Palanca1 very OOR near large tenon					
160	Bell Bore	19 10.9	Number of diameters Initial bore diameter					
	32.8mm dia. at socket	0	dist1; measured from the bottom of the wing joint- 10mm				1	
163	32mm rod 85mm from socket	430	dist2; measured from the bottom of the wing joint- 11mm				1	
	31mm rod 125mm from socket	340	Palanca1 OOR; dist3; measured from the bottom of the wing joint- 12mm				1	
165 166	30.6mm rod 155mm from socket 31mm rod 90mm from bell	225 130	Palanca1 OOR, gap vrfd; dist4; measured from the bottom of the wing joint- 13 dist5; measured from the bottom of the wing joint- 14mm	smm		-	1	
167	32mm rod 70mm from bell OOR	92	dist6; measured from the bottom of the wing joint- 14mm dist6; measured from the bottom of the wing joint- 15mm	Bottom wing	16.3		1	
168	33mm rod 45mm from bell very OOR	85	dist7; measured from the top of the bootjoint - small bore side- 16mm	top boot sma	15.4		2	
169	36.0mm dia.at bell end	170	dist8; measured from the top of the bootjoint - small bore side- 17mm	top boot larg	25.6	\vdash	2	
170 171		235 345	dist9; measured from the top of the bootjoint - small bore side- 18mm dist10; measured from the top of the bootjoint - largel bore side- 19mm	sbore dia ser	18.6	-	2	
172		295	dist11; measured from the top of the bootjoint - large bore side- 19mm	lbore dia sep			3	
173		245	dist12; measured from the top of the bootjoint - large bore side- 21mm				3	
174		215	dist13; measured from the top of the bootjoint - large bore side- 22mm			-	3	
175 176		183 160	dist14; measured from the top of the bootjoint - large bore side- 23mm dist15; measured from the top of the boot joint- large bore side- 24mm	lj_bot_bore	25.2	-	3	
177		568	dist16; measured from the top of the long joint- large bore side- 24mm	ij_bot_bore	23.2		4	
178		515	dist17; measured from the top of the long joint- 26mm				4	
179		445	dist18; measured from the top of the long joint- 27mm			1	4	
180 181		350 270	Palanca1 OOR 320 x 380; dist19; measured from the top of the long joint- 28m Palanca1 very OOR; dist20; measured from the top of the long joint- 29mm	1111			4	
182		0	dist21; measured from the top of the long joint- 30mm				4	
183		0	dist22; measured from the top of the long joint- 31mm				4	
184		0	dist23; measured from the top of the long joint- 32mm	lj_top_bore	30.4		4	