

|  | A | B | C | D | E | F | G | H | I |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 103 | Ig_tenon_bot | 47.8 | length bottom tenon on long joint [tenon going into boot joint] |  |  |  |  |  | 50.3 |
| 104 | lj_bot_bore | 24.8 | long joint bottom tenon bore diameter [tenon going into boot joint] |  |  |  |  |  | 24.9 |
| 105 | lj_top_bore | 30.5 | long joint top tenon bore diameter [tenon going into bell] |  |  |  |  |  | 30.6 |
| 106 | Ig_tenon_top | 36.4 | length top tenon on long joint [tenon going into bell] |  |  |  |  |  | 36.6 |
| 107 | e1 distance | 56 | dist long joint tenon to e1 [from bot of tenon to where tone hole enters bore] |  |  |  |  |  | 58 |
| 108 | d1 distance | 245 | dist long joint tenon to d1 [from bot of tenon to where tone hole enters bore] |  |  |  |  |  | 247 |
| 109 | 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 |  |  |  |  |  |  |  |  |  |
| 115 | VII. Bore diameters at Tone Holes |  |  |  |  |  |  |  |  |
| 116 | f2 | 12.3 |  |  |  |  |  |  | 12 |
| 117 | e | 13.1 |  |  |  |  |  |  | 13.1 |
| 118 | d | 13.8 |  |  |  |  |  |  | 13.3 |
| 119 |  |  |  |  |  |  |  |  |  |
| 120 | c | 16.5 |  |  |  |  |  |  | 16.4 |
| 121 | b | 17.6 |  |  |  |  |  |  | 17.1 |
| 122 | a | 18.1 |  |  |  |  |  |  | 18.2 |
| 123 | g | 20 |  |  |  |  |  |  | 19.8 |
| 124 | $f 1$ | 22.8 |  |  |  |  |  |  | 23 |
| 125 |  |  |  |  |  |  |  |  |  |
| 126 | e1 | 24.1 | e1 tone hole bore diameter on long joint |  |  |  |  |  | 24.1 |
| 127 | d1 | 26.3 | d1 tone hole bore diameter on long joint |  |  |  |  |  | 27.2 |
| 128 | c1 | 29 | c1 tone hole bore diameter on long joint |  |  |  |  |  | 35.1 |
| 129 |  |  |  |  |  |  |  |  |  |
| 130 |  |  |  |  |  |  |  |  |  |
| 131 |  |  |  |  |  |  |  |  |  |
| 132 |  |  |  |  |  |  |  |  |  |
| 133 |  |  |  |  |  |  |  |  |  |
| 134 | VIII. Bell |  | ProwseJ2 There is not a bell tone hole |  |  |  |  |  |  |
| 135 | bell logic | 0 | If bell_logic=0=>normal conical bore;if bell_logic=1=>inverted concial bore; | ll_logic $=2=>$ be | expan | sion |  |  | 0 |
| 136 | bell_length (0, 1, 2) | 322 | total length of bell [lines $141+144=$ line 136] |  |  |  |  |  | 314 |
| 137 | bell_bot_bore (0, 1, 2) | 30.5 | dia bore at the bottom of bell [end with socket] |  |  |  |  |  | 30.3 |
| 138 | bell_top_bore 0, (1, 0, 2) | 38.2 | ProwseJ2 vrfd end of caliper jaws 38.2 mm ; dia bore at the top of bell [where | Bb exits] |  |  |  |  | 43 |
| 139 | bell_center_bore (only for logic 2) |  | dia bore at max center of expansion |  |  |  |  |  |  |
| 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 | =>100] |  |  |  |  |  |
| 142 | Outside diameter of wood at expansion |  | Just for David |  |  |  |  |  |  |
| 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] |  |  |  |  |  |  |
| 145 | Bellfig | 70.5 |  |  |  |  |  |  | 57 |
| 146 |  |  |  |  |  |  |  |  |  |
| 147 |  |  |  |  |  |  |  |  |  |
| 148 | IX. PITCH |  |  |  |  |  |  |  |  |
| 149 | pitch | 430 | input the historical pitch of the bassoon, must input value, best guess |  |  |  |  |  | 430 |
| 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 |  |  |  |  |  |  |  |  |  |
| 155 |  |  | Bassoon Calculation: ProwseJ2-O-Edinburgh3318-Wg1-WOB-DNM |  |  |  |  |  |  |
| 156 |  |  |  |  |  |  |  |  |  |
| 157 |  |  | Notes on long joint bore: ProwseJ2 normal OOR in places |  |  |  |  |  |  |
| 158 |  |  | Notes on boot joint bore: ProwseJ2 good |  |  |  |  |  |  |
| 159 | XI. Bore Diameter Locations |  | Notes on wing joint bore: ProwseJ2 good |  |  |  |  |  |  |
| 160 |  | 18 | Number of diameters |  |  |  |  |  | 19 |
| 161 | Bell Bore | 10.2 | Initial bore diameter |  |  |  |  |  | 10.4 |
| 162 | 30.5 mm dia. at socket | 0 | dist1; measured from the bottom of the wing joint-10mm |  |  |  | 1 |  | 0 |
| 163 | 30 mm rod 130 mm from socket | 392 | dist2; measured from the bottom of the wing joint-11mm |  |  |  | 1 |  | 368 |
| 164 | 31 mm rod 70 mm from bell top end | 325 | dist3; measured from the bottom of the wing joint-12mm |  |  |  | 1 |  | 275 |
| 165 | 32 mm rod 50 mm from bell top end | 250 | dist4; measured from the bottom of the wing joint- 13 mm |  |  |  | 1 |  | 250 |
| 166 | 33 mm rod 40 mm from bell top end | 178 | dist5; measured from the bottom of the wing joint- 14mm |  |  |  | 1 |  | 155 |
| 167 | 34 mm rod 35 mm from bell top end | 115 | dist6; measured from the bottom of the wing joint- 15 mm | Bottom wing jit | 16.9 |  | 1 |  | 115 |
| 168 | 35 mm rod 30 mm from bell top end | 0 | dist7; measured from the top of the bootjoint - small bore side- 16 mm | top boot small | 16.4 |  | 2 |  | 0 |
| 169 | 36 mm rod 25 mm from bell top end | 125 | dist8; measured from the top of the bootjoint - small bore side- 17 mm | top boot large | 24.2 |  | 2 |  | 115 |
| 170 | 38.2 mm dia. at bell end | 185 | dist9; measured from the top of the bootjoint - small bore side-18mm |  |  |  | 2 |  | 170 |
| 171 |  | 310 | dist10; measured from the top of the bootjoint - small bore side-19mm | sbore dia sep | 19.6 |  | 2 |  | 335 |
| 172 |  | 350 | dist11; measured from the top of the bootjoint - large bore side- 20 mm | Ibore dia sep | 19.9 |  | 3 |  | 350 |
| 173 |  | 275 | dist12; measured from the top of the bootjoint - large bore side- 21 mm | Hook Length | 393 |  | 3 |  | 288 |
| 174 |  | 198 | dist13; measured from the top of the bootjoint - large bore side- 22 mm |  |  |  | 3 |  | 255 |
| 175 |  | 142 | dist14; measured from the top of the bootjoint - large bore side- 23 mm |  |  |  | 3 |  | 167 |
| 176 |  | 540 | dist15; measured from the top of the long joint - 24 mm | lj_bot_bore | 24.8 |  | 4 |  | 525 |
| 177 |  | 435 | dist16; measured from the top of the long joint- 25 mm |  |  |  | 4 |  | 477 |
| 178 |  | 345 | dist17; measured from the top of the long joint-26mm |  |  |  | 4 |  | 365 |
| 179 |  | 370 | dist18; measured from the top of the long joint- 27 mm |  |  |  | 4 |  | 336 |
| 180 |  | 170 | dist19; measured from the top of the long joint- 28 mm |  |  |  | 4 |  | 220 |
| 181 |  | 122 | dist20; measured from the top of the long joint- 29 mm |  |  |  | 4 |  | 180 |
| 182 |  | 0 | dist21; measured from the top of the long joint- 30 mm |  |  |  | 4 |  | 80 |
| 183 |  | 0 | dist22; measured from the top of the long joint-31mm |  |  |  | 4 |  | 0 |
| 184 |  | 0 | dist23; measured from the top of the long joint- 32 mm | lij top bore | 30.5 |  | 4 |  | 0 |

