Anon19-O-Peebles;

Tone hole dimensions and positions SaxA1-O-Brus in Red
Tone hole positions [remember to add half of tone hole dia. to get center]

Wing

Very long épaule, extends to bottom of wing
Bocal receiver and tenon of wing has been repaired
F tone hole: 214mm [231mm] from top of wing
Commands one tone hole
[5.5mm dia., 5.6mm dia.]
E tone hole: 305mm [300mm] from top of wing
Commands one tone hole
[8.1mm dia., 6.9mm dia.]
D tone hole: 410mm [390mm] from top of wing
Commands one tone hole
[8.3mm dia., C.6.5mm dia.]

Boot

Note on Boehm Fingerings:
I-II-II / IV-0-0 Fingers Bb
I-II-III / 0-V-0 Fingers B natural
I-II-III / IV-V-0 Fingers A
Etc.

Fingering C: I-II-II

C tone hole [first open hole, under a key] 105mm from socket
[6.2mm dia., 7.1mm dia.]

Fingering B natural: I-II-III / 0-V-0

B natural tone hole 145mm [8.1mm dia.]
[second tone hole, or Bb ring key]

Fingering Bb: I-II-II / IV-0-0

Bb tone hole [third tone hole on boot, under A key, closed by ring key] 183mm [4.7mm dia.]
Note: Bb tone hole is third tone hole on boot. A small hole under A key. When Bb ring key is closed, [second tone hole closed by first finger] a flap commanded by Bb ring key closes to make correct diameter for Bb

Vent tone hole [fourth open standing tone hole on boot]
282mm [283mm] from boot socket on down bore
[10.8mm dia., 11.6mm dia.]

Open **only** when Bb is played: [this is not the Bb or A tone holes]

Notes: 1. Bb ring key commands three tone holes
C tone hole [first open hole] 105mm from socket
[6.2mm dia., 7.1mm dia.]
B natural tone hole Bb ring key 145mm [8.1mm dia.]
Above B natural tone hole
Bb tone hole [third tone hole on boot, under A key, closed by ring key]
2. Ring around B natural finger hole makes the correct diameter of the Bb tone hole

Fingering A: I-II-II / IV-V-0

A tone hole: 311mm [310mm] from boot socket on down bore
[8.2mm dia., 8.0mm dia.]
A key commands one tone hole, Vent tone hole [not Bb or A tone holes]

Fingering G: I-II-II / IV-V-VI

G tone hole: 335mm [333mm] from boot socket on up bore
[9.5mm dia. [10.0mm dia.]
Note: G tone is on up bore, but tone hole is very close to two small pad cups that vent in down bore
Tone hole very long, 24.5mm length, since it extends over to the other bore

Fingering F: I-II-II / IV-V-VI / VII

F tone hole: 170mm [170mm] from boot socket on up bore
[closed by right thumb, normal fingering]
[10.5mm dia., [9.5mm dia.]
F key commands one tone hole; up bore

Bb key between second and third finger

Long joint

Both long joint tenons have been repaired

Mostly standard, with keys for D, Eb (closed standing), C, C# (closed standing), B, and Bb flat on bell, standing closed

-To finger low Bb, press low C key and key above C key

-To finger low B, finger low Bb and add key above and to the right of low Bb key

E tone hole [low D key]: 53mm [55mm] from small tenon [including tenon] [13.7mm dia., 13.8mm dia.]

D tone hole [low C key]: 255mm [258mm] from small tenon [11.5mm dia., 11.8mm dia.]

C tone hole [low B natural key]: 478mm [482mm] from small tenon [13.5mm dia., 13.4mm dia.]

Eb tone [stands closed]: 116mm from small tenon [8.7mm dia.]

C# tone [stands closed]: 390mm from small tenon [10.8mm dia.]

Bell missing

[Bell on SaxA1 has two tenons, possibly could have different lengths of bells]

Segment lengths and sockets/tenons

Notes

Bassoon has pillars, pivot screws, hinge rods, and hinge rods with pivot screws on the end.

Has needle springs like a modern bassoon

Swallowtail F key no

Bocal tone hole: there is a large tone hole 6cm from bottom, c1.5mm dia, on the bocal that is always open except when one of the two octave keys on wing is pressed. Octave keys close bocal hole.

Bocal over top 34.3cm, bottom 31.5cm

Bottom 8.5mm; at reed end c3.9mm

Rounded tone hole surfaces

Undercutting on long joint as usual

Has a bocal receiver, not a choke, since bocal must be inserted only a fixed distance if the bocal tone hole can be closed with key.