

**Heckel, Johann, 18 key bassoon; Heckel4-O-Murry**

Complete Project Title: Heckel4-O-Murry-Wg1-WOB-DNM

c. 1840-1850 Almenräder/Heckel; made before Heckel placed serial numbers

Johann Adam Heckel (1812 Adorf - 1877 Biebrich)

Karl Almenräder (1786-1843)

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Location: Murry Collection, Tennessee

Measured 20 Sept 20124

18 Key: Wing: 3 keys: high A, high C, C# left thumb

Boot: 9 keys: Bb 3<sup>rd</sup> finger, Bb right thumb, G Double drilled, F, F#,  
Ab right little finger (large bore), Ab right thumb (large bore),  
[Note: there are two Ab keys that enter the large boot bore]

Long joint: 6 keys: Eb left little finger [key missing],  
C# left little finger [touch missing], C, B touch, Bb touch,

Bell: Bb flap

No; Swallowtail F key touch  
No; Two-piece saddle on F key flap and touch  
No; Two-hole boot joint system  
No; Military bell  
Yes; Bell flare; more of a rounding of the very top of the bell  
Yes; Ivory Bell crown  
No; Bell chamber  
Yes; Tone hole on bell (low Bb flap)  
Yes; Table on long joint  
No; Date

Important Points:

1. All keys mounted in pillars and axials
2. Most Tone hole surfaces rounded as a modern bassoon
3. G key, A tone hole, on boot vents to both small bore (larger tone hole) and large bore (smaller tone hole).
4. Bb tone hole on boot have vents to both small & large bores

Notes:

1. Bassoon made of maple
2. Has a U-tube
3. All keys mounted in pillars and axials
4. No saddles, so more key guides
5. No joints hard rubber lined
6. Bell: Bb flap on pillars and rods, B tone hole metal lined
7. All tone holes on long joint rounded except low E, C tone hole
8. Not many metal tone hole inserts [Not in finger holes], less than Heckel1
9. Has action rod on boot Bb key, A round "button like" key for Bb touch see Photos
10. Key guides on: bell Bb flap; G key on boot; wing C#, high A and C
11. Bottom of wing becomes wider, to make C# tone hole longer
12. All push pins, no threaded rods
13. All three tenons have brass ferrules
14. Bell almost cylindrical, OOR

Standing Height; Bell, long joint, boot                      123.5cm vrfd  
[measured with boot cap removed, U-tube, measured from bottom ferrule]

Wing and boot    83.3cm vrfd short

Stamps on boot, long joint and bell [Not found on wing]

## Measurements not included on Data file

Ab tone hole [boot, large side] [right little finger]	12.0mm diameter [metal liner] 331mm from boot socket Drilled over toward large bore 14.3mm length
F# tone hole [boot, large side] [right thumb] Opens independently	9.0mm diameter 228mm from boot socket Drilled over toward large bore 23.3mm length [no metal liner]
Ab tone hole [boot, small side] [right thumb, linked to Ab] When Ab opened, F# opens	4.8mm diameter vrfd 261mm from small boot socket Drilled down to large boot bore 13.0mm length [no metal liner]
F# tone hole [boot, large side] [right little finger] Also closes low F	7.8mm diameter vrfd 216mm from large boot socket 8.7mm length [no metal liner]
C# tone hole [wing] [left thumb]	5.3mm diameter 32mm from wing tenon 11.2mm length [wing thickened at C#]
Bb tone hole [boot, both bores] [right 3 <sup>rd</sup> finger & right thumb]	7.1mm diameter down bore [top tone hole] 6.4mm diameter up bore 167mm from small boot socket 176mm from large socket 23.4mm length down bore 14.6mm length up bore
Low Eb tone hole, long joint [left little finger]	Could not remove key
Low C# tone hole, long joint [left little finger]	13.2mm diameter 392mm from small long joint tenon 4.4mm length [not lined]
Low B [Bell]	16.4mm diameter [Has medal insert] 116mm from bell socket 7.0mm length vrfd long [long metal insert]
Undercutting on long joint	Yes, in long joint
Boot joint small socket depth	38.4mm
Boot joint large socket depth	39.3mm

Cronin Measurement

295mm vrfd short

Wing thickness across E [II] tone hole 45.1mm

Maximum thickness of boot at C [IV] tone hole 50.3mm

A tone holes on Boot: larger tone hole on down bore

Down boot bore: 9.8mm diameter [metal insert], 275mm from small socket  
22.5mm length [metal insert extents into down bore]

Up boot bore: 9.0mm diameter [metal insert], 244mm from large socket  
16.3mm length

Thread sizes Heckel4: Pivot screws: M3.0 x 0.5 [Low C# key]