

Bass Marimba Parts (1)

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From top to bottom:

$\frac{3}{8}$ -16 hand knobs for fastening

- (1) the tube resonator rail sections and
- (2) the cavity resonator brackets to the upper aluminum tube rails.

Large $\frac{5}{8}$ -11 hand knobs for fastening the upper and lower tube rails to the stand.

Knob with bonded $\frac{1}{2}$ -13 stainless steel threaded rod for joining

- (1) the two halves of the upper 2.0 in. \times 3.0 in. aluminum tube rails and
- (2) the two halves of the lower 2.0 in. \times 2.0 in. aluminum tube rails. Bonding agent: Loctite #271.

$\frac{3}{8}$ -16 conical hand knobs used as handles for acoustically optimizing the locations of the tube resonator plugs.

$\frac{3}{8}$ -16 drill bushing lock screws with

- (1) large $\frac{3}{4}$ in. diameter heads and
- (2) original $\frac{7}{16}$ in. diameter shoulders ground down to $\frac{3}{8}$ in. diameter shanks. MSC #07401037.

These screws fasten the plywood plates — that hold the Honduras rosewood bars — to the upper aluminum tube rails.



Bass Marimba (2)

Mahogany tube resonator plugs; one plug with a $\frac{3}{8}$ -16 conical hand knob.



HR-23 Foam

Diamond Marimbas and Bass Marimba

In one small box: 25 in. × 6 in. × 14 in.

HR-23 Foam bought in 2000:

On Diamond Marimba I, 2019

On Diamond Marimba II, 2010

On Bass Marimba, 2002

In Two Large Boxes: 33 in. × 6 in. × 17 in.

HR-23 Foam bought in 2019, which is moderately more resilient than the HR-23 Foam bought in 2000.



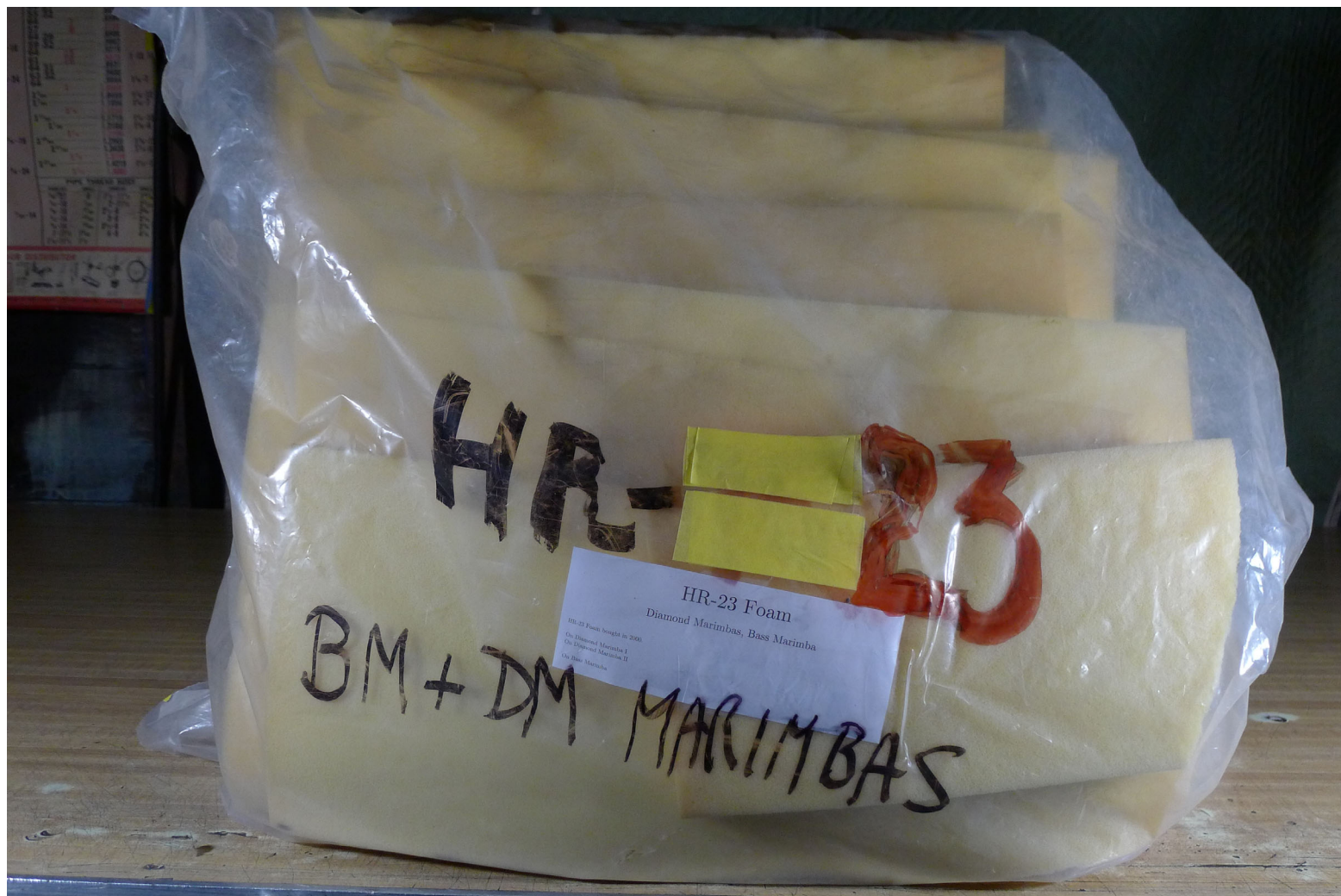
In one large bag: 28 in. × 24 in. × 12 in.

HR-23 Foam bought in 2000:

On Diamond Marimba I, 2019

On Diamond Marimba II, 2010

On Bass Marimba, 2002



Felts

Diamond Marimbas, Bass Marimba, String Winder

Brown felt from the American Piano Supply Co; they are no longer in business. I was unable to find this material anywhere. American Piano described it as, “Steinway Style Stringing Cloth, #33894NS — Brown.” This is a highly durable felt that I used to cover two mallet shelves on the Bass Marimba.

From left to right, all Schaff Piano Supply Co. products.

3 in. wide red understringing felt used to line the hose clamps that hold the $\frac{1}{4}$ -wavelength resonators on the Diamond Marimbas and the Bass Marimba. I also used this felt as cushion material on the cavity resonator brackets of the Bass Marimba, and on the ball bearing plates of the String Winder. This is also an excellent material for hand polishing wood, metal, and/or Delrin parts found on most instruments. Schaff #302R

$1\frac{1}{8}$ in. wide red understringing felt for heavy Bass Marimba mallets. Schaff #2335

$1\frac{1}{2}$ in. wide — thick — green backrail cloth for heavy Bass Marimba mallets: Schaff #322A

1 in. wide red pressure bar felt for heavy Bass Marimba mallets. Schaff #950

$1\frac{1}{2}$ in. wide — medium thick — green backrail cloth for Bass Marimba mallets and resonator plugs. Schaff #322B

2 in. wide red Steinway style stringing cloth for extra long custom music stand shelves. Schaff #2331R



Nut Plates & Furniture Foot Levelers

Bass Marimba, String Winder, Diamond Marimbas

Long Bass Marimba nut plates.

Long String Winder nut plates.

Short nut plates (not used on instruments).

1/2-13 left hand nuts welded to plates.

1/2-13 right hand nuts welded to plates.

For Diamond Marimbas I and II, *unmachined* and *unfinished* furniture foot levelers.



Instrument Building Jigs & Extra Parts (1) ⁻⁷⁻

Chrysalis II, Glassdance, Canons, Bass Marimba

Honduras rosewood spoke for Chrysalis II.

Glassdance aluminum stem roller to check the runout of Sasaki crystal brandy snifters. When used with a surface gauge, this tool enables a tuner to verify an even removal of material from the rims of the glasses.
See [Glassdance_Components_Manual-1.pdf](#), p. 23.

Bass Canon and Harmonic/Melodic Canon jig for drilling aluminum plates.

One Chrysalis I soundboard spacer.

Chrysalis I and II jigs for drilling *blind pilot holes* into felt-covered brake pads; holes for #6 tapping screws ≈ 0.315 in. long.

Chrysalis I and II jig for grinding down thirteen $\#6 \times \frac{3}{8}$ in. flat head brake pad tapping screws to a length of ≈ 0.315 in.

Bass Marimba saddle jig for drilling holes into the upper aluminum tube rails; holes used to attach nut plates.

Bass Marimba jig for drilling holes into steel nut plates. Nut plates also used to secure linear bearing support rail sections on the String Winder.

Not in photo:

Chrysalis I and II jigs for bending the ends of brass (gold powder coated) soundboard brackets to 90° .

One grey modified plastic tube used as a jig for filing a slot into a maple dowel on the stand of Chrysalis I.

Two Honduras rosewood spokes.

Two extra Chrysalis I aluminum caster blocks.

