

MUSSEER

A DIVISION OF THE CONN-SELMER, INC.

Dear Customer,

We at Musser want to thank you for selecting one of our percussion instruments. Generations of **American Craftsmanship**, Knowledge and Pride go into each and every **Musser** product.

In striving to offer the highest quality instruments and service in meeting your musical needs, we ask that you please complete both the registration Form and our Customer Satisfaction Survey.

If you are pleased, **tell everyone**; if you are not, **please let us know. WE WANT TO KNOW!**

Specifications are subject to change without notice as we at Musser continue to improve our products. The information in this manual is intended to be of a general nature only.

Thank you,

All Employees
Musser Division
Conn-Selmer Inc.

ASSEMBLY INSTRUCTIONS FOR THE M-42, M50 OR M-51 XYLOPHONE AND M-61 OR M-31 MARIMBA (With Height Adjustable Leg Feature)

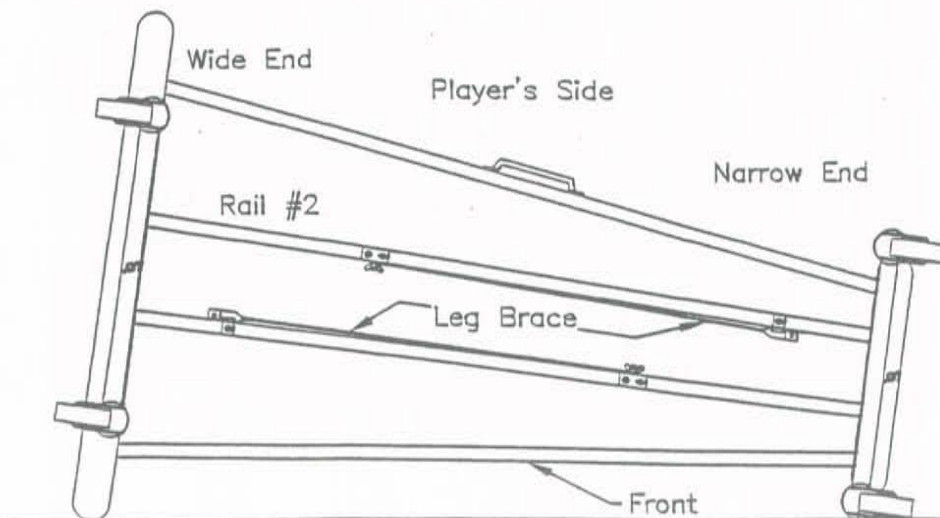
PARTS LIST

- 1 FRAME AND BAR ASSEMBLY (M-42 AND M-61 ONLY)
- 1 NATURAL SCALE RESONATOR
- 1 SHARP SCALE RESONATOR
- 1 FRAME (M-31, M50 AND M-51 ONLY)
- 1 BAR SET (M-31, M50 AND M-51 ONLY)

READ ALL INSTRUCTIONS CAREFULLY BEFORE ASSEMBLING THE INSTRUMENT.

IMPORTANT: Do not attempt to stand the Instrument on its Casters without the Leg Braces properly attached.

NOTE: The M-31 and M-51 Bars are not permanently attached to the instrument. The Bars will be assembled to the Instrument in Step 5. All other instructions are the same.



**FIGURE I
BOTTOM VIEW OF FRAME WITH LEGS OPEN**

1. Refer to Figure I. Set the front of the Instrument on edge over a rug or several sheets of paper with the wide end of the frame to your left.

- Unsnap the legs from the Leg Lock Spring on the under side of the Frame and open the Legs completely. Locate the two Leg Braces. See Figure II and note how the Leg Braces are held in place against the Rails of the Frame.

Note: On some models, the legs are held in place with Velcro® straps.

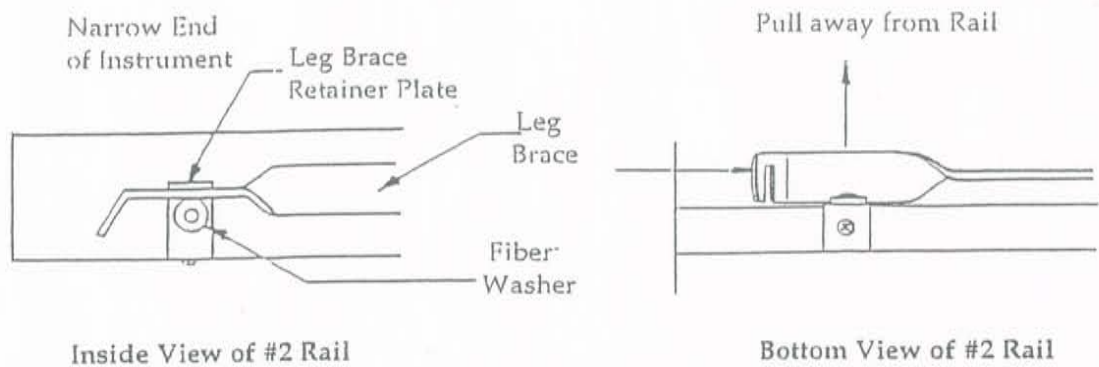


FIGURE II

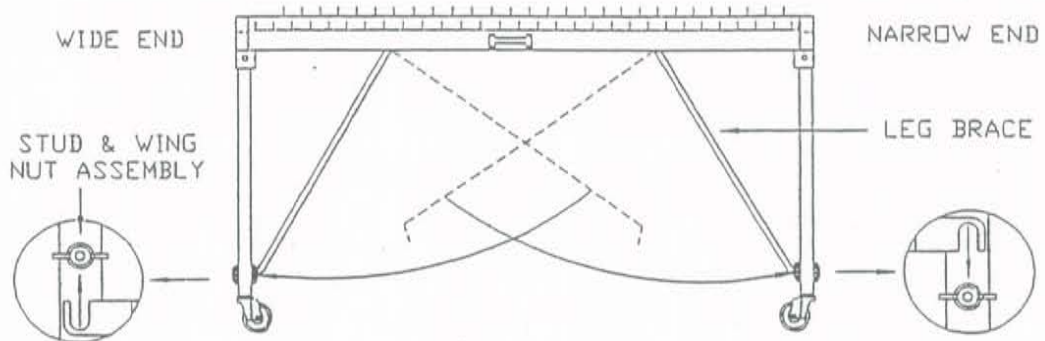


FIGURE III
TOP VIEW

Note: The front of the instrument should still be resting on a rug as in Figure I.

To release the Brace, pull the Brace away from the Rail and down away from the Frame as in Figure III. Attach each Leg Brace to its corresponding Stud and Wing Nut assembly. Tighten the Wing Nuts securely. The Instrument may now be set up in its upright playing position.

To Transport: Return each Leg Brace to its position against the Rail. Make certain each brace is positioned between the Fiber Washer and the Leg Brace Retainer Plate.

3. **Height adjustable Leg feature:**

The height adjustment feature is simple, yet effective, and provides 4" of height adjustment.

Note: If this feature is adjusted with the instrument in the upright playing position, it is necessary to have two people complete this task. One person will lift the end of the frame, holding it securely in place, while the other person adjusts and secures the Leg Insert with Caster attached.

Making sure the instrument is safely supported, unscrew the Knob with the through hole and remove the Knob with the Threaded Stud attached. Raise or lower the Frame to one of the four (4) height positions. This is determined by the selection of one of the holes in the Leg Insert with the Caster attached. Replace the Knob, with the Threaded Stud, through the hole in the Leg and tighten this together with the through hole Knob on the opposite side and tighten securely. Repeat this procedure for the other three Caster locations.

Important note for the M42 and M61

When transporting the Frame, position the Adjustable Height Leg Insert in the 3rd Hole Location (**from the Caster**) at all four Leg locations ***before*** folding the Legs under the Frame. Refer to **FIGURE IV**.

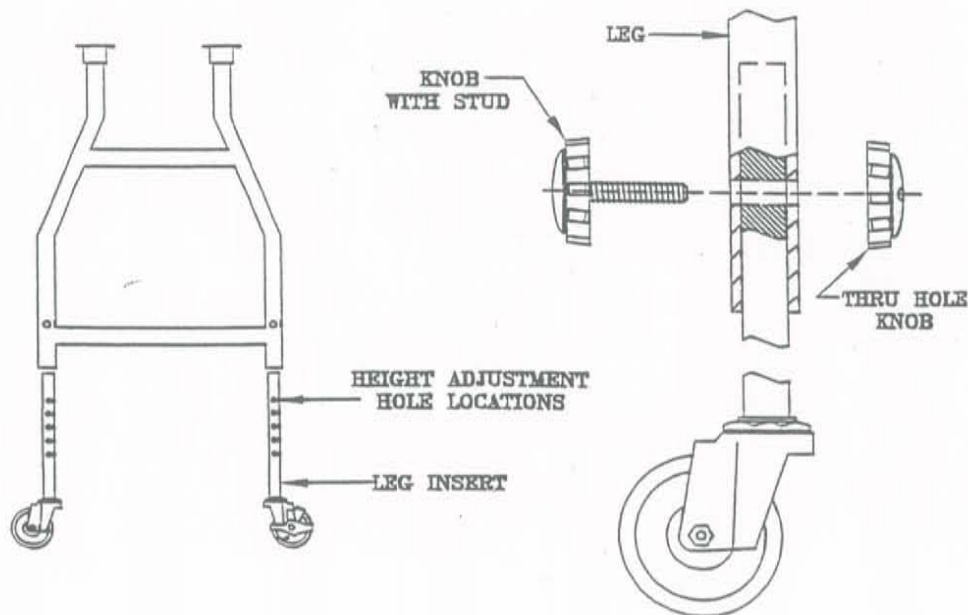


FIGURE IV

4. To install the Resonators, refer to **Figures V, VI, and VII**. Position the Sharp Scale Resonator under the Sharp Scale Bars as in **Figure V**.

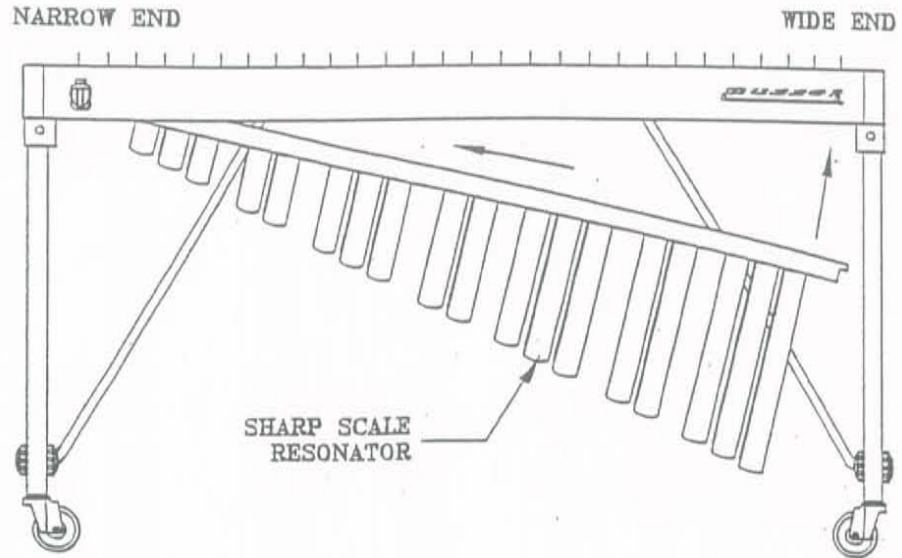


FIGURE V

Mount the Resonator Strips "A" on top of the Rubber Resonator Block "B" inside the Frame Narrow End (shown in Figure V).

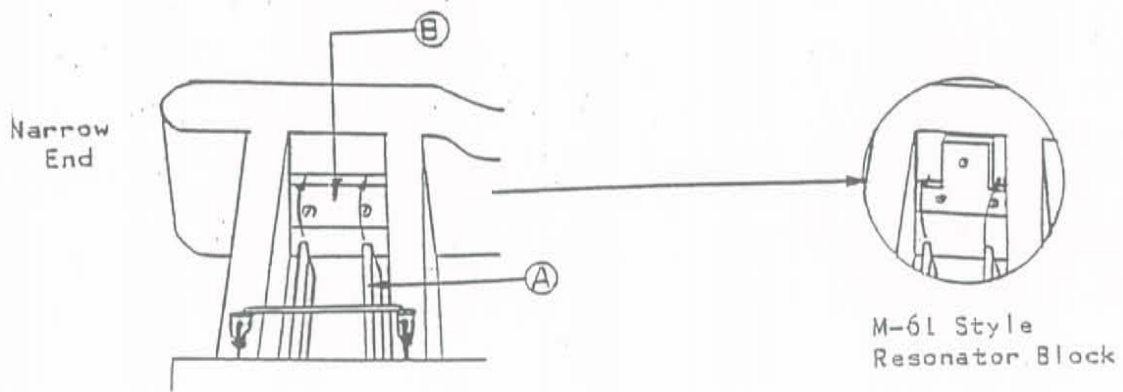


FIGURE VI

Bring the other end of the Resonator (Wide End) up toward the Frame as shown in Figure V.

Refer to **Figure VII**. One Resonator Strip passes between the two Rubber Resonator Blocks, the other Strip passes between the Rubber Resonator Block and the #4 Rail. Center the Strips over the Slots and press them into place. Install Resonator as shown.

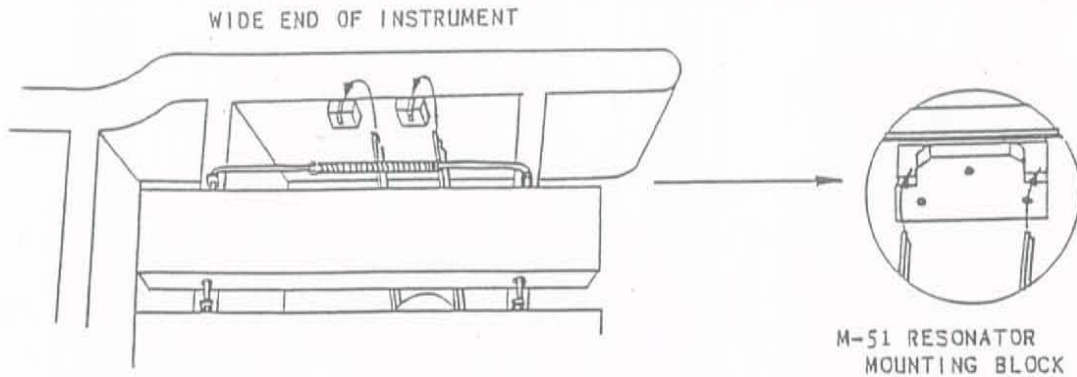


FIGURE VII

5. Place the Natural Scale Bars on the instrument and unhook the Springs. Place the Bar Cord around the End Posts at the Narrow End of the Instrument. Pull the Cord toward the Wide End of the Instrument, hook the Springs together, and place the Cord around the End Posts. Beginning at the Wide End of the instrument, start placing the Bars between the Bar Support Posts until all Bars and Cord are in position as shown in Figure VIII. To remove the bars, reverse the procedure.

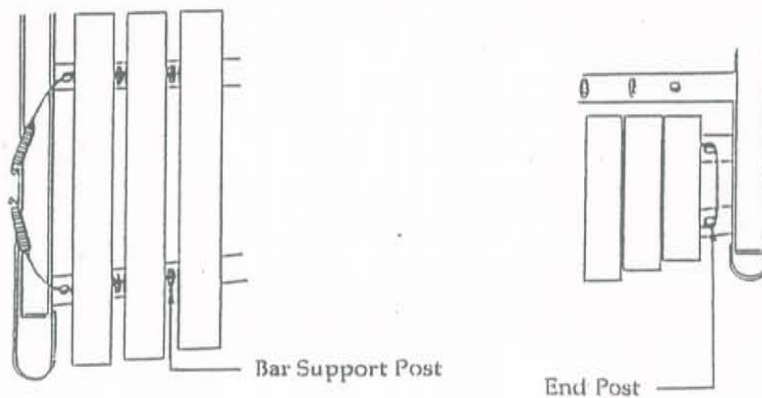


FIGURE VIII

CAUTION: Your new instrument is guaranteed against defects in workmanship and material through normal use. Please use good judgment in selecting your mallets. Use of Brass or Steel Ball Mallets will nullify the guarantee. Do not use Acrylic or Lexan Mallets on Wood Keyboards.

A WORD ABOUT YOUR CASTERS:

Your instrument is equipped with (4) casters that do not use internal sockets in the black aluminum legs for attachment. The casters secure to the leg tube by means of an expandable stem.

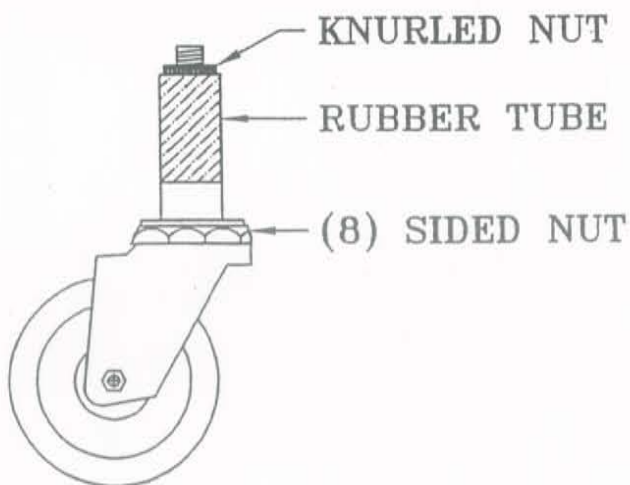
The following instructions should be followed for installing and removing the casters. See illustration below.

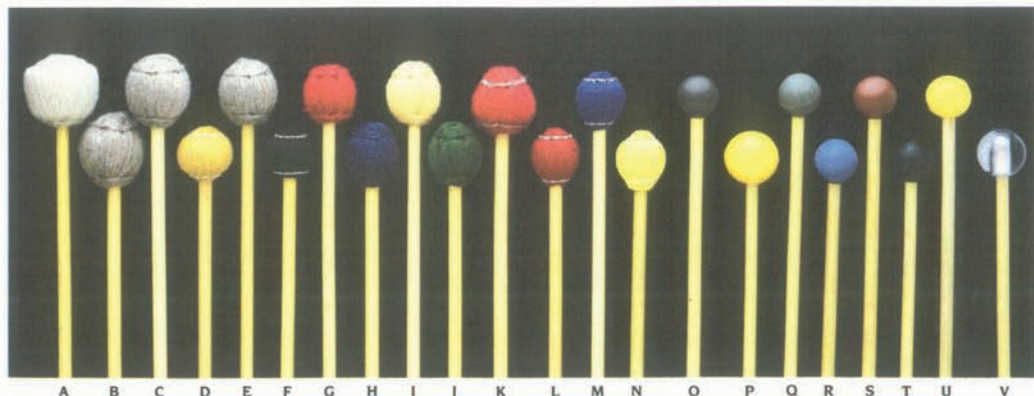
Note: Make certain that the round, knurled nut at the top of the stem of the caster is tightened against the rubber tube that covers the stem.

The large eight sided nut directly above the ball bearings on the caster controls the diameter of the expandable stem by increasing or decreasing the size of the rubber tubing that covers the stem when the stem is inside the leg tube. Looking at the caster from the bottom, turning the eight sided nut clockwise increases the diameter. Turning the nut counterclockwise decreases the diameter.

TO INSTALL: Slide the stem of the caster all the way into the leg tube. If the stem will not go in, decrease the diameter by grasping the rubber covering the stem in one hand and turning the eight sided nut counterclockwise with the other hand. When the stem is fully inside the tube, **turn the large nut clockwise**, by hand, until it is tight and the stem is secure in the leg. There is no need to over tighten. No tools are required. **(NOTE: If any of the casters ever become loose or fall out, follow the installation procedure and turn large nut on caster a couple extra turns until tight.)**

TO REMOVE: Turn the large nut counterclockwise, by hand, until the caster stem can be pulled out of the leg tube. Again, no tools are required.

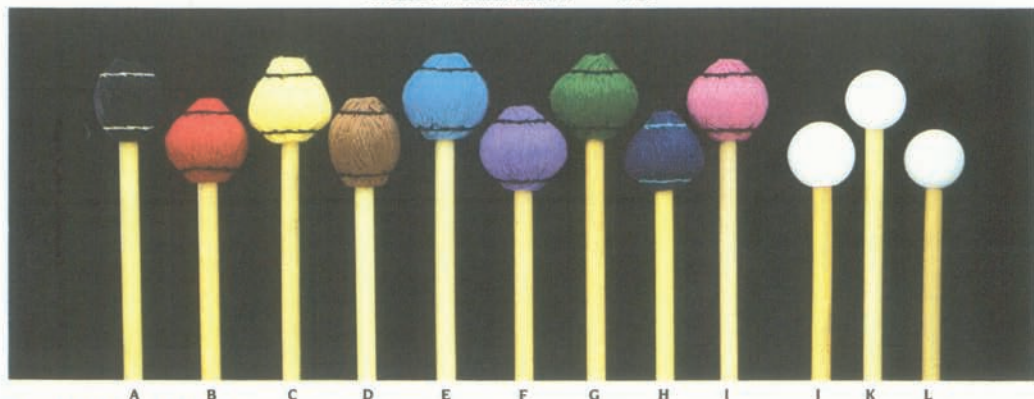




Rattan Handle Mallets

These high quality mallets feature select rattan handles. Rubber heads are hardness-graduated for a wide selection of tonal responses. Finest grade cord or yarn is used on covered mallets. Each mallet is carefully matched and balanced for flex, weight, and size. Packed in clear-view vinyl cases. The professional Gary Burton Signature Mallets (M-220, M-221) are crafted to his personal specifications.

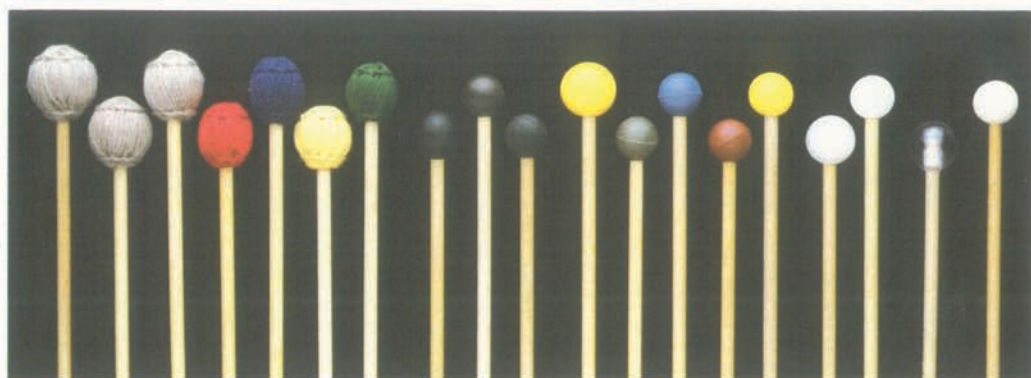
Description	Model No.	Description	Model No.
A. Yarn 1 1/8", Very Soft, Natural (M)	M-204	N. Cord 1", Soft, Yellow (V)	M-218
B. Yarn 1 1/8", Very Soft, Gray (M)	M-223	O. Phenolic 1", Hard, Brown (B, X)	M-215
C. Yarn 1 1/8", Soft, Gray (M)	M-210	P. Rubber 1 1/8", Medium Soft, Yellow (M)	M-205
D. Yarn 1 1/8", Medium Hard, Gold (M, V)	M-221	Q. Rubber 1", Hard, Gray (B, X)	M-214
E. Yarn 1 1/8", Soft, Gray (M)	M-209	R. Rubber 1", Medium Hard, Blue (M, B, X)	M-213
F. Yarn 1 1/8", Soft, Black (M, V)	M-220	S. Rubber 1", Medium, Red (M, X)	M-212
G. Yarn 1", Hard, Red (M)	M-206	T. Rubber 1", Medium Soft, Black (M)	M-224
H. Yarn 1", Medium, Blue (M, V)	M-207	U. Rubber 1", Soft, Yellow (M)	M-211
I. Yarn 1", Medium Soft, Yellow (M)	M-208	V. Lexan 1 1/8", Very Hard, Clear (B, X)	M-203
J. Yarn 1", Soft, Green (M)	M-222		
K. Yarn 1", Soft, Red (M)	M-219		
L. Cord 1", Hard, Red (V, X)	M-216		
M. Cord 1", Medium, Blue (V)	M-217		



Good Vibes Mallets

Good Vibes are recognized as the world's finest professional mallets. Handles are choice light rattan, carefully selected and matched for size, weight, and flex. Select premium yarn is wound around a solid, specially formulated and shaped rubber core, then carefully hand-stitched. Packed in clear-view vinyl cases.

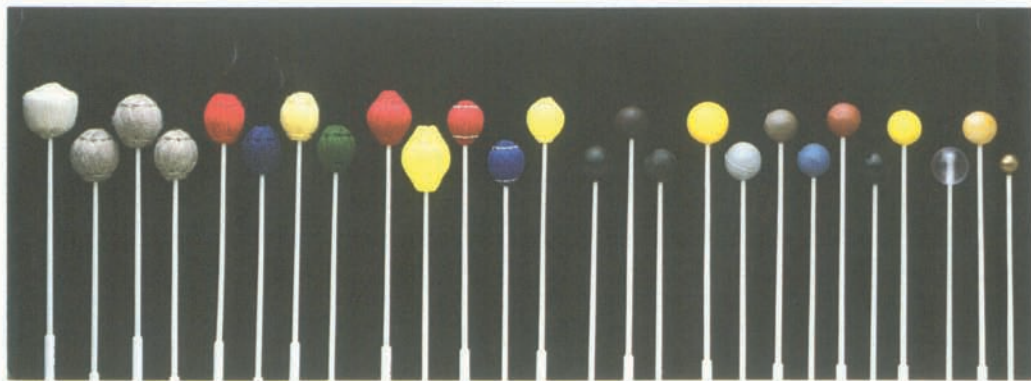
Description	Model No.	Description	Model No.
A. Yarn 1 1/8", Hard, Black (X)	M-232	G. Yarn 1 1/8", Medium Hard, Green (V)	M-239
B. Yarn 1 1/8", Hard, Red (V)	M-236	H. Yarn 1 1/8", Medium Soft, Navy Blue (M, V)	M-228
C. Yarn 1 1/8", Medium Hard, Yellow (M, V)	M-229	I. Yarn 1 1/8", Medium Soft, Pink (V)	M-233
D. Yarn 1 1/8", Medium Hard, Brown (X)	M-231	J. Poly 1 1/8", Medium Hard, White (B, X)	M-226
E. Yarn 1 1/8", Medium Hard, Royal Blue (V)	M-235	K. Poly 1", Medium Hard, White (B, X)	M-225
F. Yarn 1 1/8", Medium Hard, Violet (V)	M-237	L. Nylon 1", Hard, White (B, X)	M-227



Birch Handle Mallets

For the mallet player who wants a straight, but firmer, wood handle mallet. Precision matched for balance, these mallets come with rubber, plastic, or yarn heads. Packaged in clear vinyl cases.

Description	Model No.		Model No.
A. Yarn 1 1/8". Very Soft, Gray (M)	M-412	K. Rubber 1 1/2", Medium Soft, Yellow (M)	M-413
B. Yarn 1 1/2", Soft, Gray (M)	M-410	L. Rubber 1", Hard, Gray (B, X)	M-404
C. Yarn 1 1/8", Soft, Gray (M)	M-409	M. Rubber 1", Medium Hard, Blue (M, B, X)	M-403
D. Yarn 1", Hard, Red (M)	M-406	N. Rubber 1", Medium, Red (M, X)	M-402
E. Yarn 1", Medium, Blue (M, V)	M-407	O. Rubber 1", Soft, Yellow (M)	M-401
F. Yarn 1", Medium Soft, Yellow (M)	M-408	P. Poly 1 1/8", Medium Hard, White (B, X)	M-4226
G. Yarn 1", Soft, Green (M)	M-411	Q. Poly 1", Medium Hard, White (B, X)	M-4225
H. Phenolic 1 1/8", Hard, Black (B, X)	M-424	R. Lexan 1 1/8", Very Hard, Clear (B, X)	M-423
I. Phenolic 1", Hard, Brown (B, X)	M-405	S. Nylon 1", Hard, White (B, X)	M-4227
J. Phenolic 1", Hard, Black (B, X)	M-428		



Two-Step Handle Mallets

Musser's exclusive two-step fiber-glass handles are thick near the end for well-balanced handling and thin near the head for strong striking force. Excellent flexibility, yet highly warp resistant. All mallets precision matched for balance. Available in a wide variety of graduated rubber, plastic, metal, and wood balls as well as cord or yarn-covered balls. Packaged in clear vinyl cases.

Description	Model No.		Model No.
A. Yarn 1 3/8". Soft, Natural (M)	M-19	P. Phenolic 1", Hard, Black (B, X)	M-28
B. Yarn 1 3/8". Very Soft, Gray (M)	M-12	Q. Rubber 1 1/2", Medium Soft, Yellow (M)	M-13
C. Yarn 1 1/2", Soft, Gray (M)	M-10	R. Rubber 1 1/8", Hard, Gray (B, X)	M-22
D. Yarn 1 1/8", Soft, Gray (M)	M-9	S. Rubber 1", Hard, Gray (B, X)	M-4
E. Yarn 1", Hard, Red (M)	M-6	T. Rubber 1", Medium Hard, Blue (M, B, X)	M-3
F. Yarn 1", Medium, Blue (M, V)	M-7	U. Rubber 1", Medium, Red (M, X)	M-2
G. Yarn 1", Medium Soft, Yellow (M)	M-8	V. Rubber 1", Medium Soft, Black (M)	M-25
H. Yarn 1", Soft, Green (M)	M-11	W. Rubber 1", Soft, Yellow (M)	M-1
I. Cord 1 1/2", Medium Hard, Red (M, V)	M-27	X. Lexan 1 1/8", Very Hard, Clear (B, X)	M-23
J. Cord 1 1/2", Medium, Yellow (M, V)	M-29	Y. Wood 1", Hard, Maple ()	M-15
K. Cord 1", Hard, Red (V, X)	M-16	Z. Brass 3/8", Very Hard, Gold (Steel Bells)	M-14
L. Cord 1", Medium, Blue (V)	M-17		
M. Cord 1", Soft, Yellow (V)	M-18		
N. Phenolic 1 1/8", Hard, Black (B, X)	M-24		
O. Phenolic 1", Hard, Brown (B, X)	M-5		

USAGE CODE: V = Vibraphone, M = Marimba, X = Xylophone, B = Bells

HOW TO OBTAIN MALLETS, REPLACEMENT PARTS, OR SERVICE

CONTACT YOUR LOCAL LUDWIG/MUSSER AUTHORIZED DEALER. THE DEALER WILL CONTACT OUR DEALER SERVICE DEPARTMENT TO ASSIST YOU.

IF YOU CANNOT LOCATE AN AUTHORIZED DEALER, PLEASE CALL 574-522-1675 AND ASK FOR DEALER SERVICE.

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