

# **MUSSEER**

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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.

**NOTE: FOR THE M8044 VIBRAPHONE, REFER TO THE ASSEMBLY INSTRUCTIONS PACKED WITH THE ALL-TERRAIN CART. ATTACH THE INSTRUMENT FRAME, RESONATORS, AND BARS AS DESCRIBED BELOW.**

## **ASSEMBLY INSTRUCTIONS FOR THE M7044 "COMBO" VIBRAPHONE AND MOTO CART**

### **PARTS LIST**

#### **Moto Cart Frame**

**(2) Resonator Assemblies (Natural and Sharp Scale)**

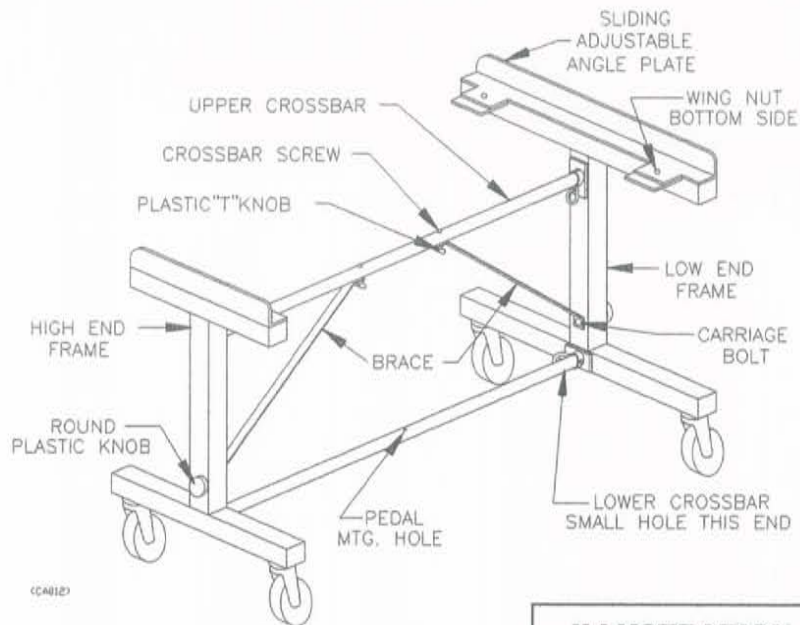
**(2) Sets of Bars (Natural and Sharp Scale)**

**Crossbar and Pedal Assembly**

**Mallets**

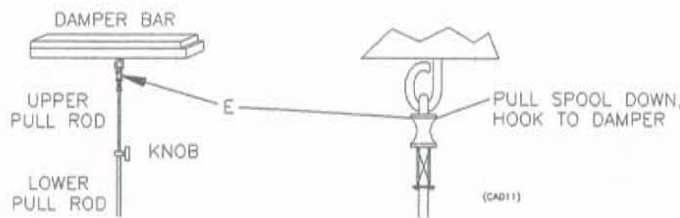
### **READ ALL INSTRUCTIONS BEFORE ASSEMBLING**

- Step 1** Place wide end piece (decal side down) on a flat, smooth surface. Install upper Crossbar with brace screws facing down. (See **ILLUSTRATION 1**) Retract the spring loaded pin at one end of the crossbar. Slide the end of each crossbar into the sleeve attached to the end piece. Align the crossbar pin with the hole in the sleeve attached to the end piece. Align the crossbar pin with the hole in the sleeve. Release the pin making certain the pins are fully released through the hole in the sleeve. (**Note: one end of the lower crossbar has a small hole through one wall of the tube. This end must go into the wide end piece for proper damper pedal alignment.**) Place this end on the ground on its casters.
- Step 2** Retract the spring-loaded pin at the free end of the crossbar. Guide the end of each crossbar into the proper sleeve on the narrow end piece. Align the pin with the hole in the sleeve and release it fully through the sleeve hole.
- Step 3** Assemble the crossbar braces to the crossbar and end pieces as shown in **ILLUSTRATION 1**. Make certain the plastic knobs are securely tightened.
- Step 4** Loosen the wing nuts on the sliding adjustable plate and slide it back away from the frame. Place the instrument frame onto the motocart. Push the frame toward the narrow end as far as it will go. Slide the adjustable angle plate against the frame and tighten the wing nuts securely. Make certain the frame ends are aligned parallel to the cart end pieces.



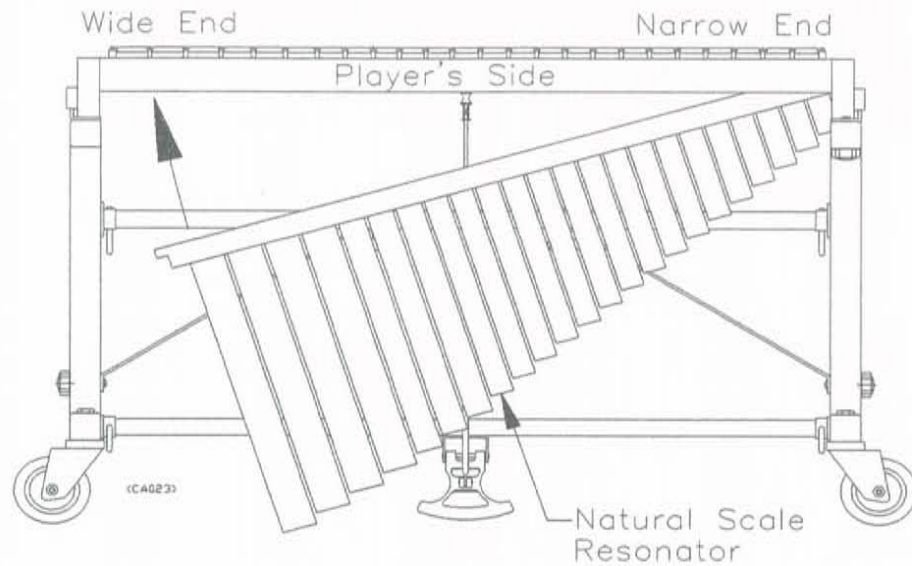
**ILLUSTRATION 1**

**Step 5** Install the damper foot pedal into the center hole of the lower crossbar. Swivel the pedal so it points toward the #1 rail (Players side). To attach the damper pedal to the damper bar, (see **ILLUSTRATION 2**), loosen the knob on the lower pull rod. Pull down spool "E" and hook the upper pull rod into the eyebolt on the damper bar.



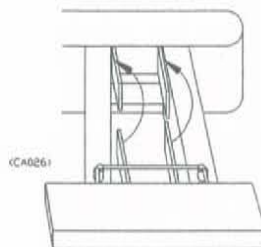
**ILLUSTRATION 2**

**Step 6** Place the natural scale resonator under the frame. See **ILLUSTRATION 3**. Slide the small end of the resonator into the cutouts on the narrow frame end. This end of the resonator should rest inside the frame end as shown in **ILLUSTRATION 4**. Bring the other end of the resonator up toward the frame as shown in **ILLUSTRATION 3**. refer to **ILLUSTRATION 5** and notice how one of the resonator strips passes between the two rubber resonator blocks and the other strip passes between the rubber block and the #1 rail. Center the strips over the slots in the blocks and press them into place. Make certain, when the resonators strips are placed in the slots of the rubber blocks, the resonator is pulled back toward the wide end of the frame as far as it will go as indicated by Arrow "F". Repeat the same procedure to install the sharp scale resonator.



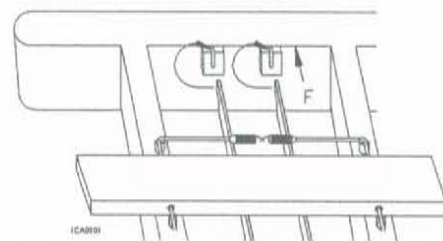
**ILLUSTRATION 3**

Narrow End of Instrument



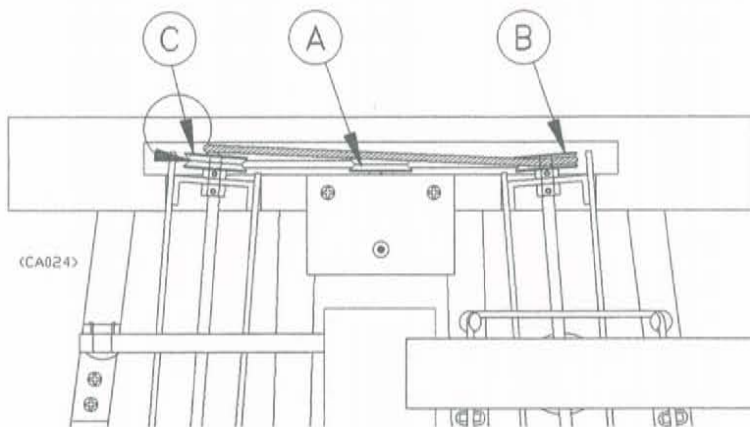
**ILLUSTRATION 4**

Wide End of Instrument



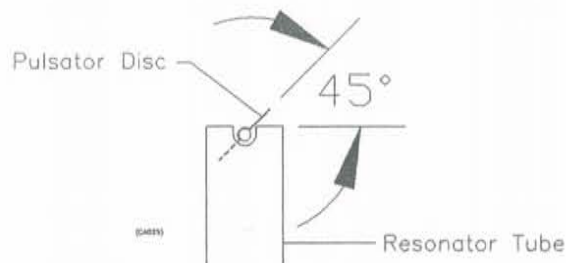
**ILLUSTRATION 5**

**Step 7** Refer to **ILLUSTRATION 6**. To install the rubber drive belt (located at the narrow end of the instrument): (A) Slip the drive belt around the pulley on the motor. (B) Slip the belt around one of the resonator pulleys. (C) Stretch the belt by hand and slip it around the other resonator pulley. Pull the belt by hand to insure it is correctly hooked onto the resonator pulleys. Try to align the pulsators evenly by holding onto one pulley while rotating the other.



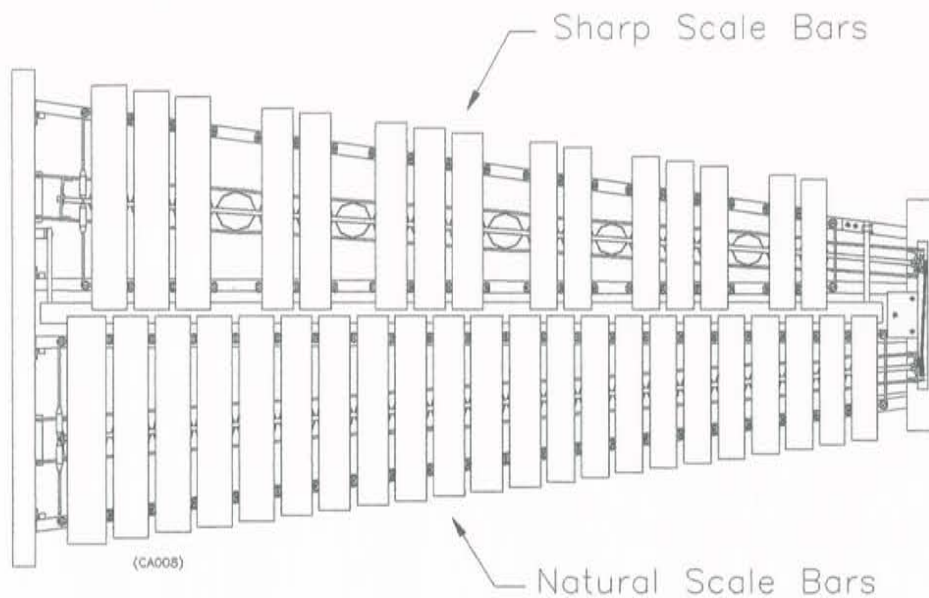
**ILLUSTRATION 6**

**NOTE:** It is very important to remember the pulsator discs be set at a 45 degree angle to achieve the most balanced resonance across the entire keyboard. See ILLUSTRATION 7.



**ILLUSTRATION 7**

**Step 8** Place the natural scale bars on the instrument and unhook the springs. (See **ILLUSTRATION 8**.) Place the bar cord around the end posts at the narrow end of the instrument. Start placing the bars between the bar support posts at the wide end of the instrument and work toward the narrow end until all the bars are in place. Hook the springs together. Repeat the same procedure for the sharp scale bars. It may be necessary to lower the damper bar (depress the pedal) in order to align the bar cord under the hooked portion of the posts on the two center rails.



**ILLUSTRATION 8**

- Step 9** Adjust the damper pedal (Shown in **ILLUSTRATION 3**) to proper playing height, about one inch off the ground. Tighten the knob securely to prevent the upper pull rod from slipping. The instrument is now ready for use.

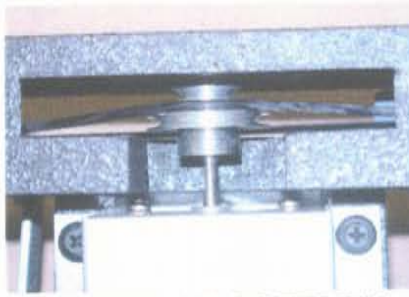
**! CAUTION !**

**YOUR NEW INSTRUMENT IS GUARANTEED AGAINST DEFECTS IN  
WORKMANSHIP AND MATERIAL THROUGH NORMAL USE.  
PLEASE USE GOOD JUDGEMENT 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.**

Your M44 is equipped with a three-speed pulley.



SLOW POSITION



MEDIUM POSITION

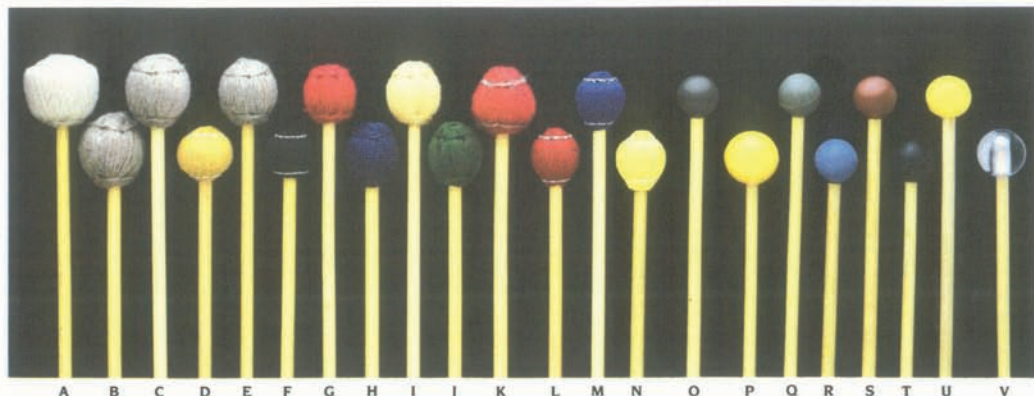


FAST POSITION

- A. Slip the Belt around the desired Pulley on the motor.
- B. Slip Belt around the outside of the pin.
- C. Attach the Belt around the pulley on the PLAIN Scale Resonator.
- D. Stretch the Belt toward, then around the SHARP Scale Resonator Pulley.

### IMPORTANT

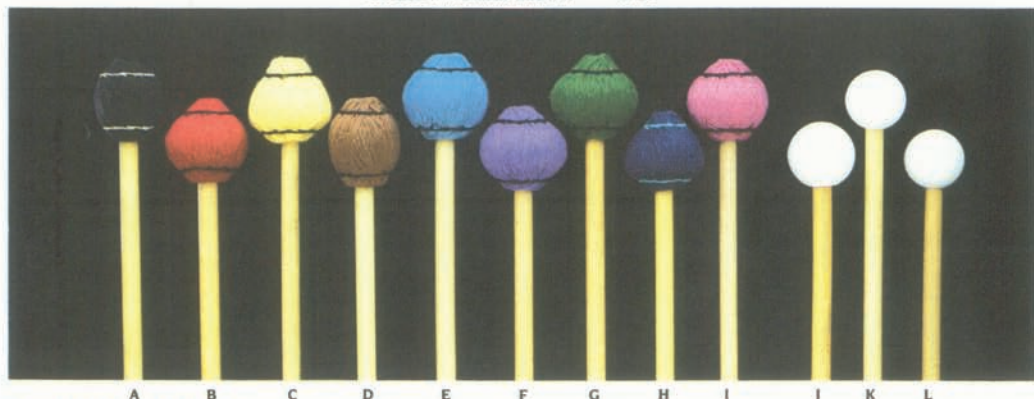
When the Vibe Motor is not being used, Pulsator Discs in Resonators should be set at a 45-degree angle for maximum resonance.



### 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		

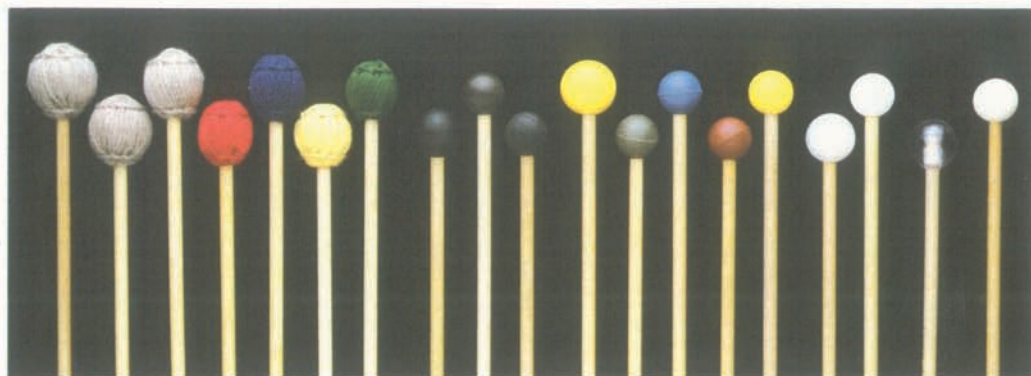


### Good Vibes® Mallets

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

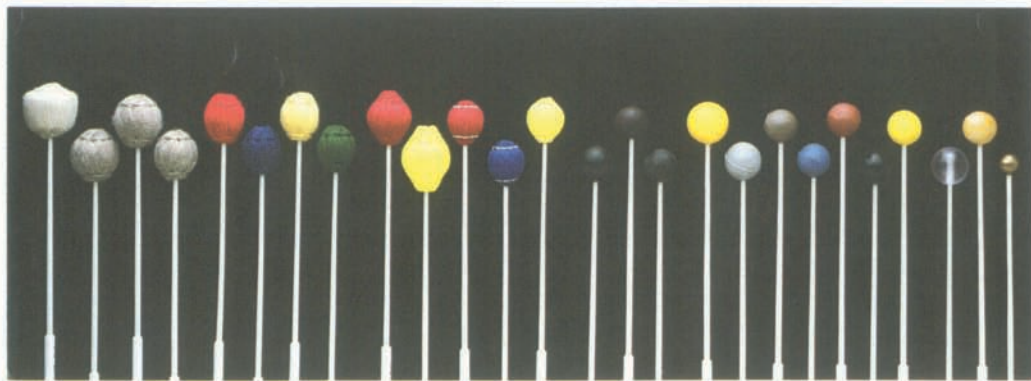




### Birch Handle Mallets

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.		
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.		
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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