

# ***musser***

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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.

# MUSSER COLISEUM GRAND BASS



**MODEL NUMBER: M502    NAME: COLISEUM GRAND BASS**

## **KEYBOARD SPECIFICATIONS:**

Keyboard height is adjustable from 35" to 39" off the ground.

**RANGE:** 2 Octaves - 25 Notes - C2 TO C4

**BAR SIZES:** Length of lowest note 19-1/16" graduating down to 13-3/4" highest.

**WIDTH AND THICKNESS:**

C2 to C3	3" wide	by 5/8" thick
C3# to C4	2-1/2" wide	by 5/8" thick

**MATERIAL: KELON.**

**FINISH:** Painted with custom black lacquer.

## **RESONATOR SPECIFICATIONS:**

**MATERIAL:** High grade light aluminum alloy tubing.

**FINISH:** Highly durable silver vein Electro-static finish.

**CONSTRUCTION:** Braces are 1/8" thick steel fastened with screws and locking nuts to aluminum resonators. Resonators are solidly braced to eliminate any sag.

**FRAMES:** The end supports and frame are made of heavy gage steel and have a durable matte black Electro-static finish. The M502 is 37" wide x 35" to 39" tall x approximately 65" long. Shipping weight is approximately 225 lbs.

***MADE IN THE U.S.A.***

# ASSEMBLY INSTRUCTIONS FOR THE M502 COLISEUM GRAND BASS MARIMBA

**Note:** Due to the size, weight and beautiful finish on your Coliseum Grand Bass Marimba, great care should be taken when assembling and moving the instrument.

## CAUTION!

**Lay Resonators flat on the floor.** If Resonators are rested on the open mouths of the tubes, they may fall over.

It is advised to use two people when moving the instrument. Do not move the instrument down steep inclines or stairways. Wheel brakes should be used to stabilize the instrument when in position by pushing the foot pedal levers "ON"

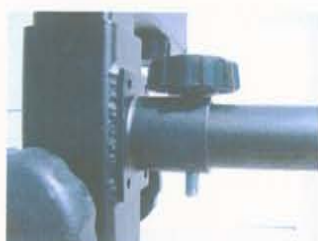
Wash your hands with soap and water and dry thoroughly before handling the Keyboard.

## FRAME ASSEMBLY INSTRUCTIONS

1. With Wheels locked, attach lower and upper Crossbar to Low End Frame as shown in **Photo #1**. Push the Crossbar into the End Frame sleeve until holes are aligned; insert hand knob from top through both holes as seen in **Photo #2**. Install Hand knob and tighten using both hands. See **Photo #3**. Unlock Casters and rest End Frame on angle with lower Crossbar touching the floor. See **Photo #4**



**Photo #1**



**Photo #2**



**Photo #3**

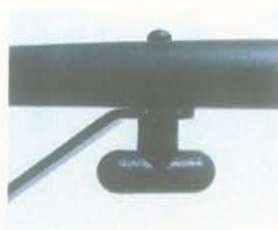


**Photo #4**

2. With Wheels locked, attach the High End of the Crossbars to the High End Frame.
3. Attach the Diagonal Brace between the Crossbar and the End Frame as shown in **Photo #5 & Photo #7**. Tighten both Hand Knobs. As shown in **Photo #6 & Photo #8**. Repeat this procedure for the other end.



**Photo #5**



**Photo #6**

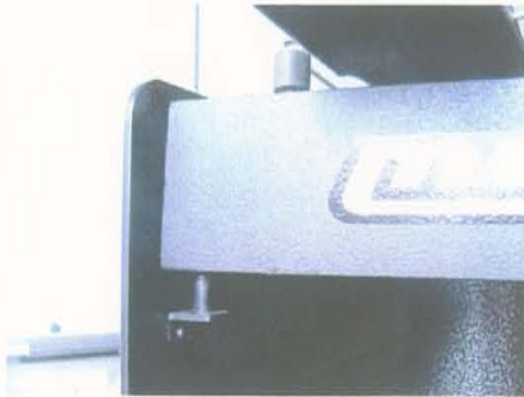


**Photo #7**



**Photo #8**

4. Note the hole at the bottom end of each rail. Unfold Rail #2 and align holes in Rail with Pins in Bracket on End Frames. (Rails are numbered 1 to 4 from player to audience.) See **Photo #9**. When aligned, push on Rail directly above Pin to seat Rail in Bracket. See **Photo #10**. Rails will fit High and Low brackets firmly.



**Photo #9**



**Photo #10**

5. Repeat Step 4 with Rail #3. After Rails #2 and #3 are installed as shown in **Photo #11** (High end) and **Photo #12** (Low end), the next step will be to install the Resonators.



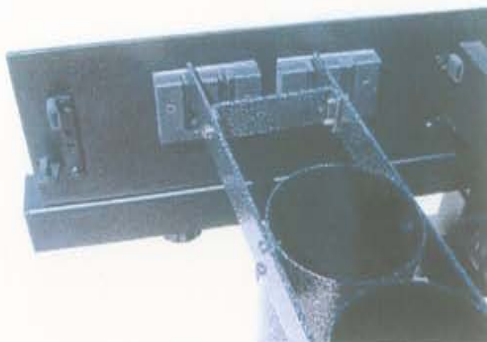
**Photo #11**



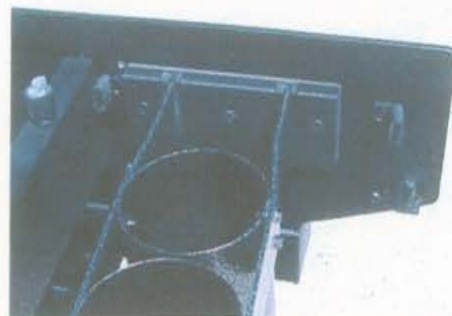
**Photo #12**

## RESONATOR ASSEMBLY INSTRUCTIONS

7. Place Low End of two metal Resonator Support Strips into deep set of Rubber Slots located on Low End Plate, See **Photo #13**. Place High End of two metal Resonator Support Strips into Rubber Slots located on High End Plate. See **Photo #14**. The shallow set of slots on the Low End is for high temperature and high humidity conditions.

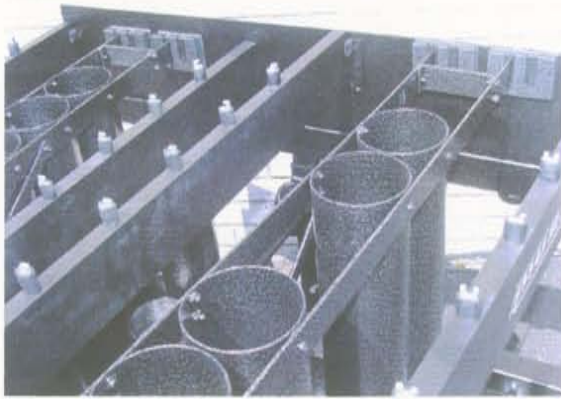


**Photo #13**



**Photo #14**

8. Repeat Step 7 with Sharp Set of Resonators.
9. Repeat Steps 4 and 5 with Rails #1 and #4. See **Photo #15 & Photo #16.**



**Photo #15**



**Photo #16**

10. With Spring Assembly fully loosened, carefully place Natural Bars on instrument. Hook Cord around End Post on High End, See **Photo #17**, and work your way towards the Low End of Instrument. Hook Springs together as shown in **Photo #18**. Repeat with Sharp Bars. **When packing the Bars for transport, loosen the Springs, place a blanket or packing foam over entire length of Keyboard, and roll the Bars snugly into material, from Low End to High. When unpacking, place highest bar near its proper position and unroll Bars from top to bottom so that blanket or packing material ends up on top of Keyboard.** This procedure minimizes the risk of scratching the top of the bars.



**Photo #17**



**Photo #18**

**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.**

## SPECIAL FEATURES FOR MUSSER M502

**HEIGHT ADJUSTABLE:** The keyboard height is adjustable from 35" to 39" and has two clamp knobs on the sides of each frame end. The Player's side has a hole for position, and the far side is to lock it in place. Adjusting of the keyboard height is assisted with an internal gas spring. This takes most of the weight off, so 10 to 20 lbs. of pressure is all that is necessary to move the keyboard up or down. This may vary with the weight of additional accessories.



**ALL TERRAIN WHEELS:** The pneumatic wheels are 10-1/2" in diameter by 3-1/2" wide and have a locking brake and can swivel for easy turning. These air filled tires (30 psi) can easily roll over most obstacles such as door thresholds, hoses and even gravel or stone surfaces with very little effort. (Grease fittings provided)



## OPTIONAL ACCESSORIES FOR MUSSER M502

**M8001 - RACK SYSTEM:** The rack system consist of a rigid crossbar with adapters and receivers. Also included are the bell mounting brackets, (4) universal clamps and fasteners for the rack system.



**M8003 - TRAP TABLE:** The Trap table comes with a receiver and a hand knob to hold it in position.

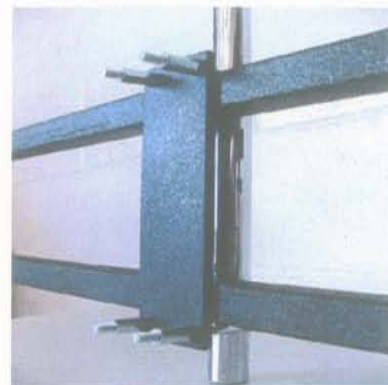
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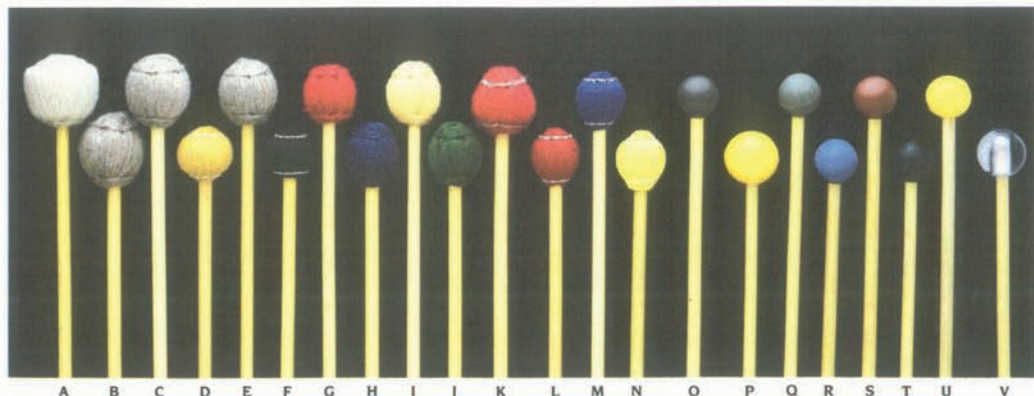


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**M8004-CRASH CYMBAL HOLDER:** The Crash Cymbal holder comes with a receiver and a hand knob to hold it in position.

**M8011-UNIVERSAL CLAMP:**  
The (4) Clamps come with "U" bolts to fasten your accessories to the crossbar.

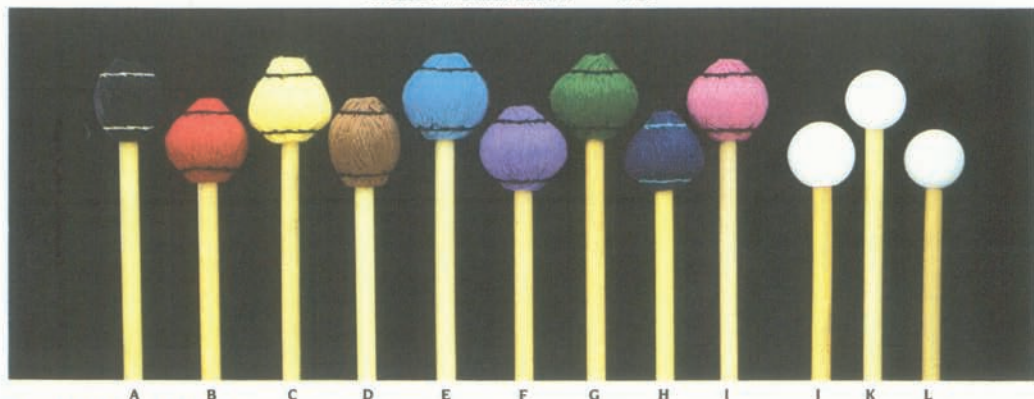




### Rattan Handle Mallets

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		

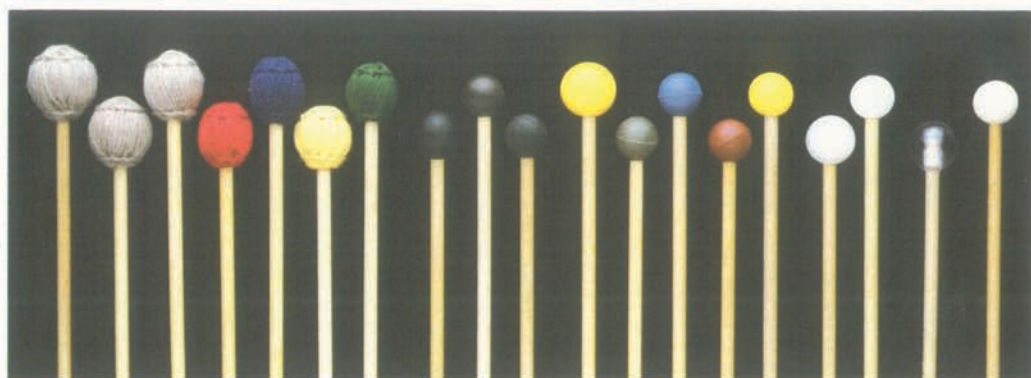


### Good Vibes Mallets

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

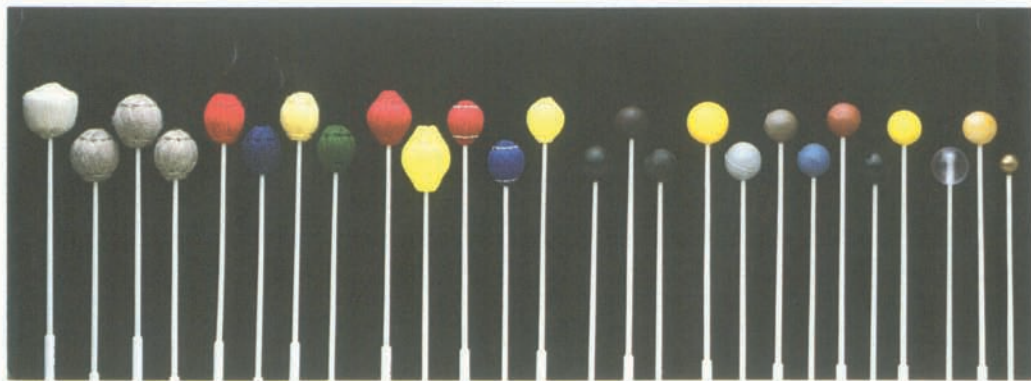




### Birch Handle Mallets

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)
B. Yarn 1 1/2", Soft, Gray (M)	M-410	L. Rubber 1", Hard, Gray (B, X)
C. Yarn 1 1/8", Soft, Gray (M)	M-409	M. Rubber 1", Medium Hard, Blue (M, B, X)
D. Yarn 1", Hard, Red (M)	M-406	N. Rubber 1", Medium, Red (M, X)
E. Yarn 1", Medium, Blue (M, V)	M-407	O. Rubber 1", Soft, Yellow (M)
F. Yarn 1", Medium Soft, Yellow (M)	M-408	P. Poly 1 1/8", Medium Hard, White (B, X)
G. Yarn 1", Soft, Green (M)	M-411	Q. Poly 1", Medium Hard, White (B, X)
H. Phenolic 1 1/8", Hard, Black (B, X)	M-424	R. Lexan 1 1/8", Very Hard, Clear (B, X)
I. Phenolic 1", Hard, Brown (B, X)	M-405	S. Nylon 1", Hard, White (B, X)
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)
B. Yarn 1 3/8". Very Soft, Gray (M)	M-12	Q. Rubber 1 1/2", Medium Soft, Yellow (M)
C. Yarn 1 1/2", Soft, Gray (M)	M-10	R. Rubber 1 1/8", Hard, Gray (B, X)
D. Yarn 1 1/8", Soft, Gray (M)	M-9	S. Rubber 1", Hard, Gray (B, X)
E. Yarn 1", Hard, Red (M)	M-6	T. Rubber 1", Medium Hard, Blue (M, B, X)
F. Yarn 1", Medium, Blue (M, V)	M-7	U. Rubber 1", Medium, Red (M, X)
G. Yarn 1", Medium Soft, Yellow (M)	M-8	V. Rubber 1", Medium Soft, Black (M)
H. Yarn 1", Soft, Green (M)	M-11	W. Rubber 1", Soft, Yellow (M)
I. Cord 1 1/2", Medium Hard, Red (M, V)	M-27	X. Lexan 1 1/8", Very Hard, Clear (B, X)
J. Cord 1 1/2", Medium, Yellow (M, V)	M-29	Y. Wood 1", Hard, Maple ( )
K. Cord 1", Hard, Red (V, X)	M-16	Z. Brass 3/8", Very Hard, Gold (Steel Bells)
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.**

**VISIT OUR LUDWIG/MUSSER  
WEB SITE ON THE INTERNET  
<http://www.ludwig-drums.com>**

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