

musser

A DIVISION OF THE CONN-SELMER INC.

M58/M58M
PIPER VIBE



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CUSTOMER SERVICE 1-574-522-1675

musser

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.

A Tour of the Piper™ Frame

Setting Up Your MUSSER/PIPER M58

When you first take your new Piper™ Frame from the box, check to **make sure the Casters are in the locked position**. If the Casters are not locked, lock them being careful not to pinch your fingers.

STOP!

If you set up the instrument without the casters locked, the instrument will collapse!

I. Lowering the Legs

- A. With the Frame resting on the floor, release the Straps which hold the Legs in their folded position and set aside.

STOP!

If you lower the Legs without the Casters locked, the instrument will collapse!

- B. Slowly lift the low end (large end) up until the Legs have dropped to the open position.

STOP!

If you lower the Legs without the Casters locked, the instrument will collapse!

- C. Slowly lift the high end (small end) until the Legs have dropped to their open position.

2. Assembling the Pedal Rail

- A. Place the Pedal Rail into position between the small (high end) and large (low end) Leg Assemblies. The slot on the ends should be facing the audience, and the two Pedal Rail Braces should be on top.
- B. Loosen the lower Handles on the Leg Frames by turning them counter-clockwise approximately 5 turns. Slide them into the Pedal Rail connecting slots and secure them.
- C. Loosen the Handles on the Pedal Rail Braces. Push the end of the Brace toward the center. This releases the Braces and allows them to then be lifted into position.
- D. Lift the Pedal Rail Brace ends up and out, telescoping them toward the Handles of the Leg Assembly's upper horizontal portion.
- E. Slide the Handles into the slots of the Pedal Rail Braces, secure by turning clockwise.
- F. Secure the Handles.

PEDAL

The Pedal can be placed in various positions on the Pedal Rail. It glides from right to left and locks into place with the turn of the Handles. This makes playing in the high register (especially when reading) much easier. You just glide the Pedal to the right of center (assuming you dampen right footed) and lock it into place. It allows the artist to stand comfortably when playing all registers of the instrument. It is also ideal for the mallet percussionist who needs to operate the Pedal while still performing on other instruments, by locating the Pedal at more extreme right or left positions on the instrument.

3. Assembling the Pedal

- A. Loosen the bottom two Handles approximately 5 rotations counter-clockwise.
- B. Slide the Pedal (open end of the slots facing the audience) into position and secure.

4. Connecting the Pedal to the Damper Rail

- A. With the Hex Key provided, loosen the two Screws of the Locking Hinge (top hinge) on the Hinge Fulcrum, located beneath the Harp.

- B. Turn the top square of the Hinge Fulcrum counter-clockwise approximately $\frac{1}{2}$ rotation to loosen.
- C. Glide the Hinge Fulcrum into place directly over the position of the Pedal.
- D. Loosen the Pull Rod on the arm of the Pedal and telescope it up and cure secure it to the Hinge Fulcrum making sure the Hinge Fulcrum and Pedal are perfectly aligned
- E. Tighten the top square of the Hinge Fulcrum to the Damper Rail by turning clockwise, by hand, securely.
- F. After determining the proper angle of the Locking Hinge (see 5. "Adjusting the Feel of the Pedal") tighten the two Screws on the Locking Hinge of the Hinge Fulcrum with the Hex Key provided.
- G. Loosen the Pedal Pull Rod Adjustment Handle, raise the Pull Rod to the Hinge Fulcrum. Insert the Rod into the Hinge Fulcrum, secure it at the desired Pedal height.

About the Locking Hinge Fulcrum

The Locking Hinge Fulcrum is the device used to attach the Pull Rod from the Pedal to the Damper Rail. It eliminates the 'play' responsible for much of the squeaks and clicks associated with the traditional vibe frame. It also allows the artist to control the 'feel' of the pedal like a drum set player can control the feel of a bass drum pedal.

5. Adjusting the 'Feel' of the Pedal using the Locking Hinge Fulcrum

- A. Using the Hex Key, loosen the two Flat Head Screws on the Locking Hinge portion of the Hinge Fulcrum (top hinge).
- B. Choose the desired angle and tighten the Screws.

Note: *The Locking Hinge is able to create an angle from 90 (L) to 180 (I) degrees, which serves as a lever to change the action and feel of the pedal. The larger the angle, the quicker and stiffer the pedal will be. The smaller the angle, the easier the pedal will be to depress. The smaller angle will cause the damper rail to be slower and move less distance in relationship to the pedal. The designer recommends beginning with just a slight angle, or straight hinge, and experiment with varying angles until you find the 'feel' you like.*

MOTOR CONTROL BOX

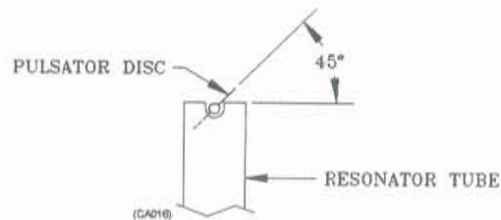
When setting up, or packing up, the M58M, the Control Box will have to be raised or lowered on it's glides. When setting up, lower the Control Box to it's lowest position by loosening the two finger nuts and moving the Control Box down. Tighten the Finger Nuts and begin assembling the Bars. Do the reverse when packing up.

STOP!

DO NOT FOLD UP LEGS WITH THE MOTOR CONTROL BOX IN THE LOW POSITION, OR ATTACH THE RESONATORS WITH THE BOX IN THE HIGH POSITION.

When the Motor is not being used, the Power Cord can be wrapped around the two (2) Handles on the player's side of the narrow end piece.

Note: It is very important to remember, when the Motor is not being used, the Pulsator Discs be set at a 45 degree angle to achieve the most balanced resonance across the entire keyboard. See below:



SHOCK ABSORBING BAR MOUNTS

The **PIPER™ FRAME** has shock absorbing bar mounts that allow the bars to be suspended and bounce a little when struck. This feature insulates the frame from the shock wave caused by the mallet striking the bars and improves the sound of the bars.

6. To assemble the Bars to the Frame

- A. Lay the bars in their proper spaces with the string resting in the Bar Mount Opening along the inside rails.
- B. Thread the String around the Corner Posts and connect the Springs at the ends of the String.

- C. With one hand, push down on the bar at the inside node point and with the other hand, push gently forward. This causes the bar to travel toward the inside (toward the damper rail) and settle into the hook portion of the bar mounts. You simply lay the outside portion of the bar into the outside rail tracks.

Note: For easiest assembly, stand to the outside of the instrument. If you are assembling the naturals, you will be in the player's position. If you are assembling the accidentals, you should be standing in front of the instrument.

PIPER CUSHION DAMPER PAD

The Piper Cushion Damper Pad is a liquid filled bladder which 'squishes' out to the ends of the instrument and equally redistributes the force applied to the Bars by the Spring(s).

The PIPER™ FRAME dampens all notes evenly, effectively, and silently!

The benefits of the Piper Cushion Damper Pad are great. The Pad is constructed of highly durable material, which is puncture resistant, and should last a very long time. You should not leave the Pad in a very cold or hot environment for any extended period of time. The pad is removable and held onto the Damper Rail using Velcro®. If the liquid in the Pad should freeze, allow it to thaw out naturally and avoid folding it during this time.

The Felt Blanket which covers the pad should be replaced as needed (*disengaging the damper rail when not in use extends the life of both the damper pad and felt blanket.*)

To disengage the Damper Rail, depress the Damper Pedal and turn the disengaging Plate, (located on the bottom of the Damper Rail) 90 degrees. Gently release the Pedal so the Plate rests against the bottom of the two inner harp rails. To release the Plate, reverse the procedure. If needed, the tension of the Plate can be adjusted by turning the Black Knob at the end of the Set Screw.

DAMPER SPRINGS

Instead of the usual one-spring set up, the Musser/Piper M58 is equipped with two adjustable compression springs on the damper rail. The spring bridges (the metal pieces which hold the springs) can be independently (one left and one right) raised with the turn of a knob to increase the pressure distributed by the damper pad to the bars. They also move anywhere (independently) from right to left to further help balance the pressure.

7. Adjusting the Springs Compression

- A. To increase the pressure from the Damper Rail to the Bars for 'drier' dampening, simply turn the top Flat Knurled Nut up toward the Bar Rails, then turn the bottom Flat Knurled Nut toward the Bar Rails. This action raises the Spring Bed toward the Bar Rails, which compress the Springs and increase the pressure applied to the Bars, from the Damper Rail. When the desired pressure has been determined, turn the top Flat

Knurled Nuts toward the bottom Flat Knurled Nuts and jam them to lock. To loosen the Springs for a 'wetter' dampening, do the reverse.

8. To change the location of the Springs

A. Loosen the spring compression all the way.

Note: Each Spring Bed has two Button Head Screws with two Flat Knurled Nuts on each Screw. If you unscrew the bottom Flat Knurled Nuts all the way to the bottom head of the Screw, and continue to unscrew, you will loosen the Screw and it will come out.

B. Remove one Spring Bed Screw.

C. Remove the Spring.

D. Glide the Spring Bed to the desired location.

E. Line up the Spring Mount Half Spheres by turning them by hand Counter-clockwise to loosen and glide them into place.

F. Secure Half Spheres and remount Spring and Spring Bed.

Note: You will have to move the 'T' Nut located in the Glide Slot from where the Screw was removed, and move it into its new position by sliding it with the *Hex Key*.

G. Tighten the compression of the Springs as before and secure the Screws by turning them clockwise with the Hex Key.

HEIGHT ADJUSTMENT

Accommodates all heights. The height adjustment is simple, quick and rock solid!

9. Adjusting the Height

A. Loosen the Pedal Pull Rod adjustment Handle.

B. Beginning at either end of the instrument, loosen the Height Adjustment Handles one rotation. Lift that end to the desired height and secure one of the Height Adjustment Handles. This will hold the height adequately; you can then tighten the other Height Adjustment Handle.

C. Repeat 'B' for the other end of the instrument.

D. Secure all Handles and adjust Pedal Height.

FOUR-WAY INDEPENDENT WHEEL LEVEL ADJUSTMENT

In addition to Height Adjustment of almost a foot, stemming from the top of the instrument, the Musser/Piper M58 has four-way independent Wheel leveling. Each Wheel will drop down approximately 2 inches to compensate for uneven surfaces to keep the instrument from rocking.

LOCKING BRAKE AND SWIVEL CASTERS

When the Wheel is locked, the swivel action of the Casters is also locked, once again adding to the 'rock solid' effect.

DO NOT OPERATE THIS FEATURE WITH HAND OR FINGERS! THE LOCKING BREAK AND SWIVEL ARE HEAVY DUTY AND WILL INJURE FINGERS OR UN-PROTECTED FEET. WEAR SHOES WHEN OPERATING THE LOCKING CASTERS!

NO ROCK-N-ROLL UNDER BRACING

Two heavy duty telescoping under braces connect the Pedal Rail to the Leg Frame to keep the instrument from rocking or parallelogramming.

SIX WHEELS?

Two lightweight dolly casters have been added to the Harp portion of the instrument so that when the legs are folded up, one can 'dolly' the instrument. This feature even works on stairs.

SQUEAKS AND CLICKS

All moving parts have Teflon Bushings or U.H.M.W. which is an ultra high density plastic also used for joint replacement in humans.

THE MUSSER/PIPER M58 RESONATOR HEIGHT ADJUSTMENT FEATURE

The M58 has Resonator height adjustment, which allows the Resonators to be easily raised and lowered to fine tune their distance from the Bars. This has a tuning and detuning effect that can be used to enhance the volume, tone, sustain and warmth of the instrument. The Height Adjustment feature is primarily for use on instruments that do not have the Resonator "Fans" or

Pulsators. Most of the Height Adjustment Feature will not be usable due to the height of the Fan hitting or bumping the Bars. The height of the Resonators should be placed at the lower settings when Fans are present in the Resonators.

REPLACING THE PIPER CUSHION DAMPER PAD

The Piper Cushion Damper Pad is a unique device which helps the dampening of the Bars to be stopped more evenly than ever before. It also absorbs shock and insulates the Bars from the Springs and other potentially noisy apparatus of the Frame.

The usage of the Piper Cushion Damper Pad should be viewed similar to the use of a tire on an automobile, in that the possibility of a "flat tire" is present and therefore, a wise motorist always has a spare. The manufacturer recommends the Piper Cushion Damper Pad be replaced annually and the musician should always have a spare on hand.

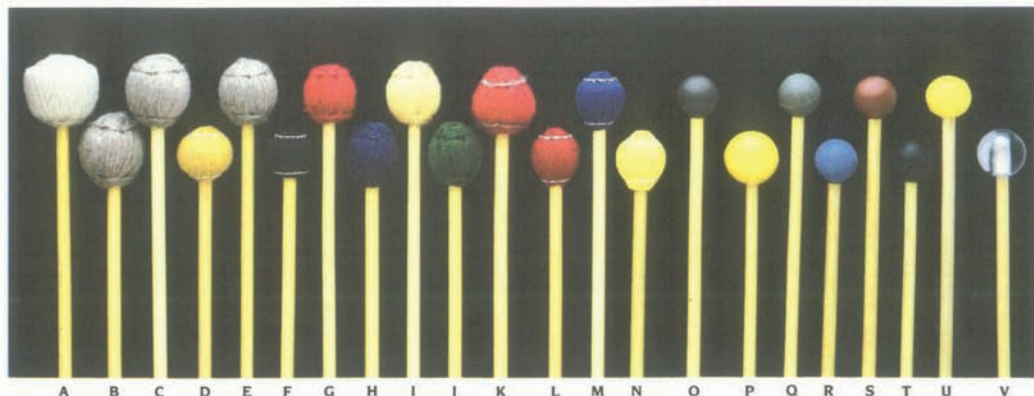
1. To replace the Cushion

Pull the old one off by tugging on one end. The Pad is secured using Velcro® hook and loop fastening. Carefully place the new Pad on the Damper Rail. Make certain the Pad is centered on the Damper Rail.

2. To replace the Felt

Beginning at either end, center the Felt over and around the Pad and onto the sides of the Damper Rail. Press the horizontal sides of the Felt down to the sides of the Damper Rail, which have the Velcro® loops. The Velcro® will hold the Felt blanket in place. After you have secured front and back horizontal sides to the Velcro®, cut excess felt on the ends to the size of the Pad with a scissors. The Felt should be evenly distributed (front to back) and secured to the Velcro®.

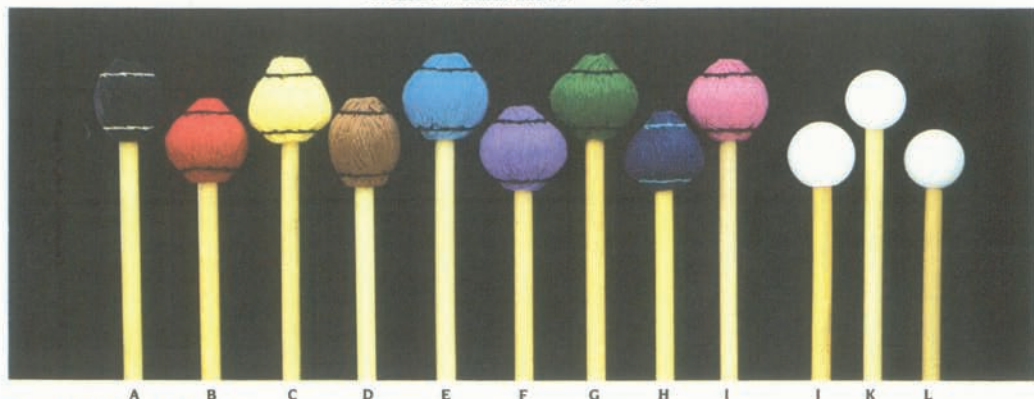
Your new instrument is guaranteed against defects in workmanship and material through normal use. Please use good judgement in selecting your mallets. Use of Steel Ball mallets will nullify the guarantee.



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.

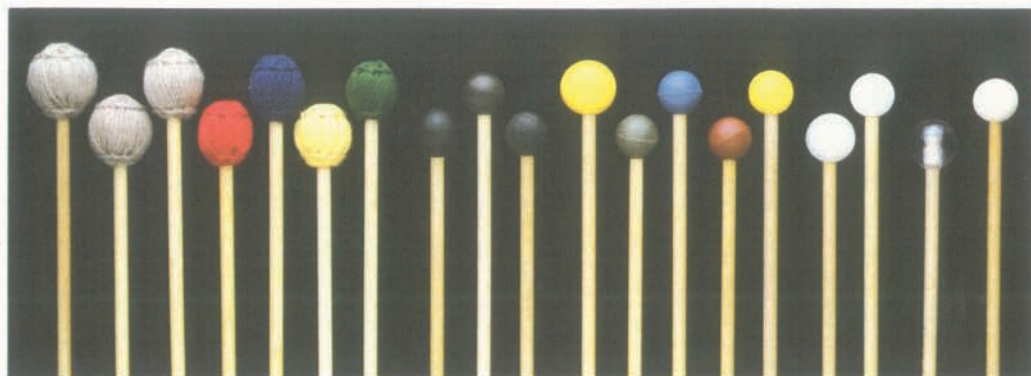
Description	Model No.	Description	Model No.
A. Yarn 1 1/8", Very Soft, Natural (M)	M-204	N. Cord 1", Soft, Yellow (V)	M-218
B. Yarn 1 1/8", Very Soft, Gray (M)	M-223	O. Phenolic 1", Hard, Brown (B, X)	M-215
C. Yarn 1 1/8", Soft, Gray (M)	M-210	P. Rubber 1 1/8", Medium Soft, Yellow (M)	M-205
D. Yarn 1 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

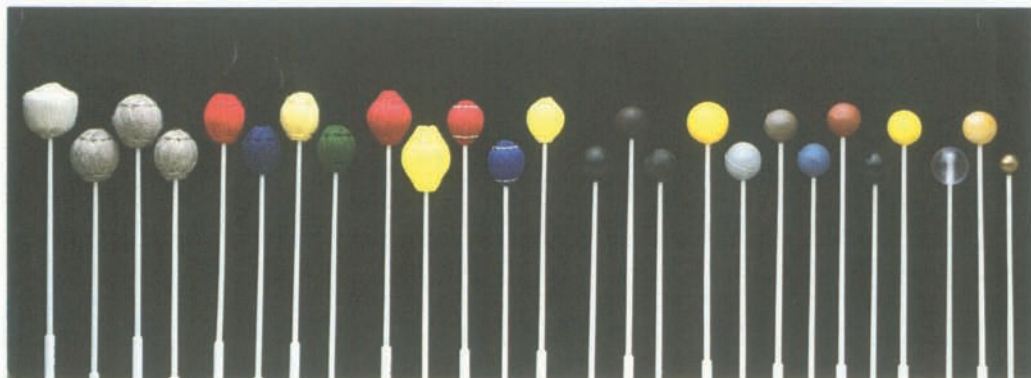


A B C D E F G H I J K L M N O P Q R S

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		



A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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.

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

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- Marching Percussion
- Concert Percussion
- Educational Percussion
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- Total Percussion

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- Percussion Events

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- Canada by Province
- International Distributors