



# GETTING STARTED INSTRUCTIONS

www.musicalmushroom.com

Revision 1.7

## WELCOME



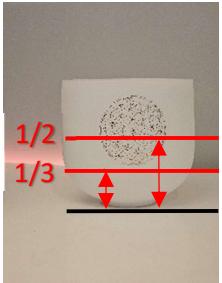
Thank you for purchasing the Musical Mushroom®, a new patent pending technology allowing you to operate your singing bowls with simple hand gestures! Before you begin, it is very important to read and follow the instructions below.

For the very latest updated information, including videos and documents and user support forums, scan the QR codes below or visit the links on our website.

	QR Code	URL
Installation and use videos and manuals		<a href="http://www.musicalmushroom.com/support">www.musicalmushroom.com/support</a>
User forums to ask questions and get specific support		<a href="http://www.musicalmushroom.com/forum">www.musicalmushroom.com/forum</a>

## NOMENCLATURE



STEP 1 - INSTALLING THE EXCITER	
	<p>Remove the protective plastic cover from the exciter by inserting your finger in the hole and carefully prying it away.</p> <p>Keep this cover aside for storing your exciter when it is not installed in your bowl. It is important to protect the exciter during transport to prevent damaging its delicate suspension.</p>
	<p>Peel off the protective tape strip to expose the sticky tape. Keep this strip in case you want to remove the mounting disc from your bowl and protect the tape from dust again. Ensure that the small sound hole passing through the center of the mounting plate and adhesive layer is not obstructed.</p>
	<p>Make sure the gray arrow on the exciter is pointing upwards during installation.</p>
 	<p>Place the exciter 1/3 to 1/2 of the way up the inside surface of the sound bowl with the gray arrow pointing up and making sure that no part of the plastic touches the crystal surface. Installing it lower or higher will affect the resonance quality of the bowl.</p> <p>GENTLY press the exciter against the bowl to start gluing it just enough to be able to unscrew the exciter from it. Never press or pull onto the exciter itself or on its cable! This can permanently damage the delicate suspension.</p>

STEP 1 - INSTALLING THE EXCITER (CONTINUED)		
 	<p>Gently unscrew the exciter from the mounting disc. You can now directly apply firm pressure directly onto the mounting disc using your fingers.</p> <p>This mounting disc may be permanently be left installed in your bowl. You can still use your bowl in the traditional manner or screw on an exciter when you use a Musical Mushroom®. To remove this disc, follow the additional instructions at the end of this document.</p>	
	<p>Re-screw the exciter onto the mounting disc, finger tight. Being careful not to drop the exciter in the bowl. If there is any chattering during normal use, tighten it a bit more. As shown in the picture, only the sticky tape should be contacting the crystal surface. NO part of the plastic housing should make any contact with the crystal. If so, it will result in a loud buzzing / chattering sound during use. The exciter is now installed and ready for use. Go to Step 2.</p>	
 	<p><b>HOW TO REMOVE:</b> When you are finished playing with the Musical Mushroom®, you can remove the exciter by simply unscrewing it from the mounting disc and placing it into its protective plastic cover for transport or storage.</p> <p><b>PRO TIP:</b> it is recommended to unscrew the exciter once you are finished playing. If you leave them screwed on for long periods of time, the weight of the exciter may eventually stretch out the adhesive, which will slowly sag and potentially detach over time. If necessary, replacement mounting plates may be purchased on our website.</p>	

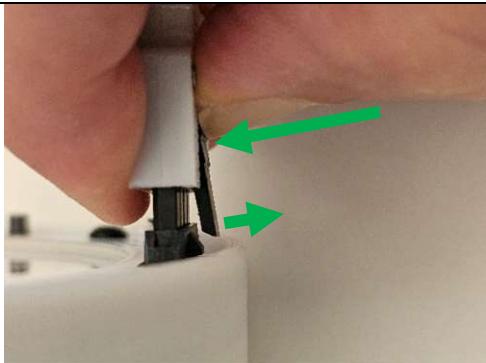
## STEP 2 - INSTALLING THE MUSICAL MUSHROOM™ UNIT



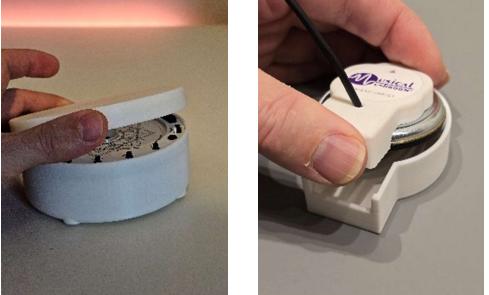
Remove the protective plastic lid from the Musical Mushroom® unit. Keep this lid aside for protecting your unit when storing or transporting it. Never stack units on top of each other unless the lid is installed, or this will damage the delicate buttons.



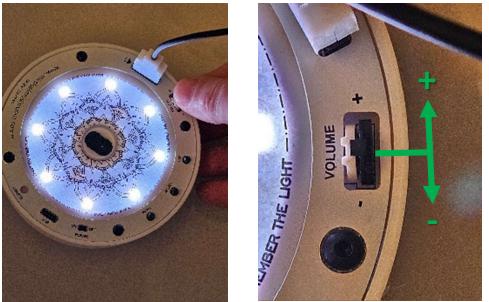
Position the unit at the base of your bowl, careful not to drop it. Connect the exciter cable connector to the unit until you feel a click. Ensure that the cable is not covering the laser beam sensor (black lens in the center of the unit). If so, rotate the unit to move the cable away. Just make sure the cable also doesn't touch the crystal bowl. The unit is ready for use. Go to Step 3.

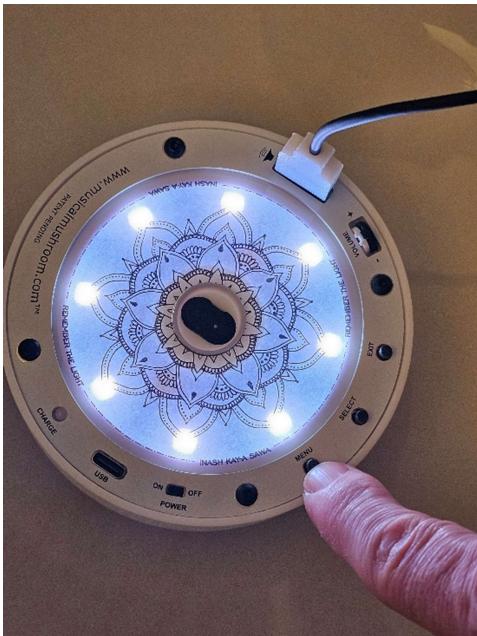


**HOW TO REMOVE:** Once you are finished playing and want to remove the unit, first disconnect the exciter. Use your fingernail to squeeze down on the plastic latch lever end and make it pivot away from the connector body as shown in the picture. While keeping the pressure, pull out the connector by holding it from the white plastic body. Never pull on the cable! Also, do not use excessive force. If the plastic latch is pressed correctly, the connector should easily pull out. Practice makes perfect!

	<p>Once the exciter is disconnected, you may remove the Musical Mushroom® and replace the protective lid on top. Also, you may unscrew the exciter and also replace its protective plastic cover for storage.</p> <p><b>NOTE:</b> NEVER screw or unscrew the exciter <u>while the cable is connected to the unit</u>. That will twist the cable and potentially damage it. Always disconnect first!</p>
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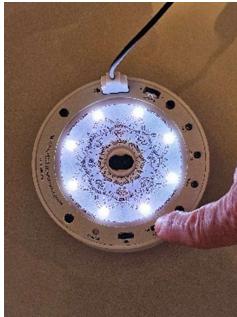
### STEP 3 – CALIBRATING YOUR BOWL

	<p>Move the switch to the ON position. <u>Wait 5 seconds</u> for the internal computer to boot. The LED's should eventually turn ON (unless you setup the LED animation to permanently OFF state in which case the unit will work without the LED's ON).</p>
	<p>To adjust the volume to a safe level, press the MENU button. You should hear a voice sounding from your bowl. Adjust the volume button by using the side of your thumb until the volume is at a comfortable loudness. The black portion of the volume wheel rotates back and forth, which may be a bit tricky at first. Practice makes perfect. Do not damage the wheel using excessive force! Rotate towards the + to increase or – to decrease the volume. If the speech stops before you finished adjusting the volume, press MENU again and continue adjusting it. Once satisfied, press the EXIT button to exit the menu.</p>



A calibration is required the first time you install the mushroom in a new (or different) bowl. It will only remember the last calibration done. The calibration allows the unit to understand the exact resonant frequencies of your bowl to make it sing. It is recommended to do the calibration in a quiet room away from any noise. See website for more information and tips. Only calibrate one unit at a time. During the calibration, an audible sweep is heard and a small microphone in the unit listens for the bowl sounds. You must remain totally silent during this phase, or the calibration may be incorrect. If that happens, try a new calibration. **PRO TIP:** calibrate your bowls ahead of an event in a quiet space and match the unit to their calibrated bowl using a pair of color-coded stickers. At the venue, you can easily match them together. Now, launch the calibration by pressing the MENU button until you hear “BOWL CALIBRATION”. Then press SELECT and wait for the calibration process to complete. Move to Step 4.

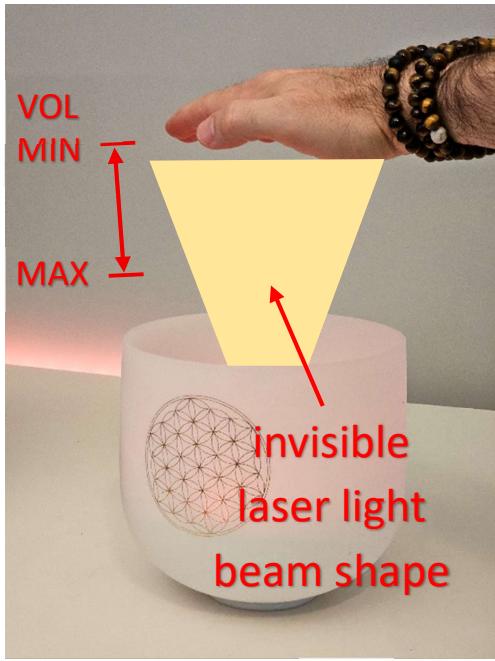
#### STEP 4 – BASIC OPERATION



**UNIT SETUP:** During normal use, you would first screw the exciter onto the mounting plate. Then, position the Musical Mushroom® unit in the bottom of the bowl, making sure the rubber feet make good contact with the bowl without wobbling (you can add small spacers if it does or rest the Mushroom on a small fabric pillow or O-ring instead). Connect the exciter cable to it. Finally, place the switch in the ON position, waiting 5 seconds for the unit to boot. Once the LED's are ON, you are ready to use the unit.



**ADJUST MAX VOLUME:** At this point, we are assuming that your unit has already been calibrated to this bowl. The color of the LEDs will vary depending on your specific color settings. Start with your outstretched hand positioned completely off to the side of the bowl and at a vertical height of approximately 45 cm (1.5 feet) above the top of the bowl. Now quickly enter the invisible range sensing laser light beam by approaching your hand sideways towards the center of the bowl stopping it directly above its center. Now, lower your hand to get the full loudness and simultaneously use your other hand's thumb to adjust the maximum volume control knob to a comfortable maximum level as shown in the picture. Do not set the volume too loud! Musical Mushroom Inc. are not responsible for damaged bowl resulting from misuse!



**READY TO PLAY!** To detect a hand, the Musical Mushroom® emits a series of invisible eye-safe laser light beam pulses. This light beam has the shape of an inverted cone as illustrated in the image. To play, you must enter the beam sideways using your outstretched hand starting from outside the bowl moving towards its center relatively quickly. Once in the beam, move your hand up and down to control the loudness. Exit the beam relatively quickly by moving your hand sideways away from the center off to the side of the bowl.

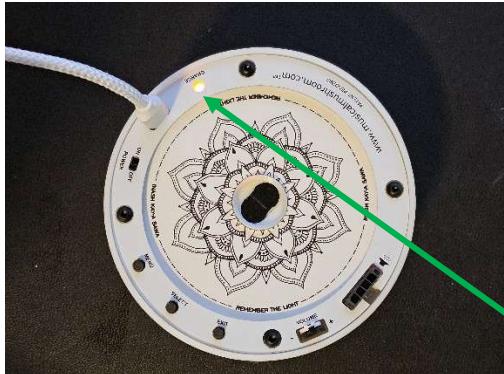
**PRO TIP:** Your hand needs to move completely off to the side of the bowl to exit the beam cleanly. If you merely move your hand over the bowl edge, it might not detect the exit cleanly and continue playing. Also, if you move sideways too slowly, it may not detect the entry/exit correctly.

Whichever vertical height you choose to enter the beam becomes your home position. Going down from that position increases the bowl's volume relative to the entry point. Going up lowers it until 0%. The hand detection movement range from 0%-100% volume is set to 30 cm (1 foot) by default.

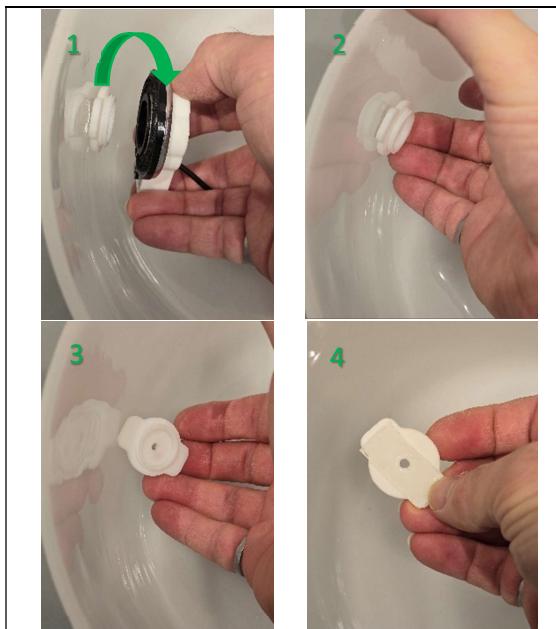
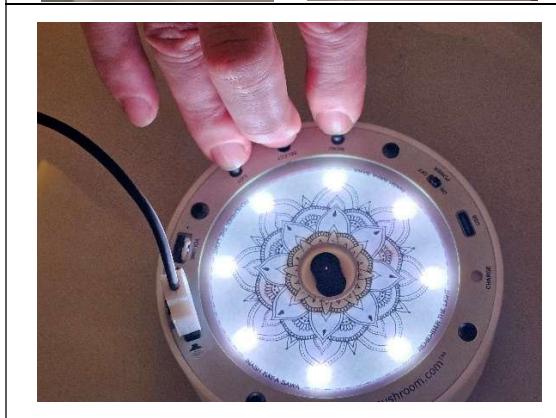
**AUTOMATIC NOTE HOLD:** If you exit sideways after having held your hand in the beam at least 1 second, the unit will automatically hold that note indefinitely at that same volume without you needing to hold your hand in the beam (at least until the battery runs out!). To stop the bowl, just move your hand sideways in and back out of the beam in less than 1 second or cut the beam sideways like a karate chop. This quiets the bowl. When in doubt, karate chop! This will always stop everything and allow you to start again.

**WAVE PATTERN HOLD:** To have the unit automatically continue a “woo-woo-woo” wave pattern (tremolo), simply make a smooth up and down wave motion with your hand in the beam for at least 5 seconds after which you will see a white flash, signaling that you may exit the beam sideways reasonably fast if you want the wave pattern to continue automatically. Karate chop to stop!

#### ADDITIONAL INFORMATION



**CHARGING THE UNIT:** The battery life lasts about 3.5 hours on a full charge (your mileage may vary depending on your chosen LED colors, volume setpoint and usage duty cycle). It is always recommended to fully charge your units using the provided USB charger and cable before an event. Once the battery is fully discharged, the unit will stop working. At that point switch OFF the unit and connect it to your USB charger. An amber charging LED indicates charging and GREEN indicates fully charged.

	<p><b>REMOVING THE MOUNTING DISC:</b> Should you wish to entirely remove the mounting disc from your bowl, (1) first unscrew the exciter from the mounting disc. Place the protective shell back onto the exciter. (2) Place your fingertips firmly below the mounting disc and (3) apply direct firm pressure upwards and wait. Be patient! It will come off! Don't wiggle back and forth. That just re-sticks it! Steady vertical pulling force will get it to come off over time. Some residue may be left behind. If the adhesive is damaged, you may need a replacement disc for future use. You should place back the wax paper to cover the adhesive to keep it sticky. (4) Also ensure that the hole is still unobstructed. Otherwise, you will need a replacement mounting disc.</p>
	<p><b>FACTORY DEFAULT:</b> In order to fully clear the unit of all settings and calibrations, start by placing the power switch in the OFF position. The USB charging cable must be unplugged. Using your three fingers hold down the MENU, SELECT and EXIT buttons simultaneously. While holding them down, move the power switch to the ON position and continue holding down the 3 buttons approximately 5 seconds until the LED's light up white. The unit is now in a factory default state. <b>WARNING:</b> all settings made to the config.txt file are lost and restored to defaults.</p>
	<p><b>CLEANING THE LASER SENSOR COVER:</b> It is important not to obscure the dark plastic cover at the center of the unit. An eye-safe invisible laser beam exits vertically from this aperture. It may need to be cleaned periodically if residue or fingerprints cover it. The hand gesture sensor may not work as well as usual. To clean it, use the same approach as cleaning eyeglasses. A fine cloth or Q-Tip may be used to wipe the dark lens clean. Do not use abrasives or chemicals other than lens cleaner.</p>



**PROBLEMS WITH LOW CEILINGS:** It is important to understand that the unit measures any obstacle such as a hand hovering above the unit up to 1.2 m (4 feet). It can't tell the difference between a hand and a low ceiling, for example. This could happen if the unit is placed on a table under a low ceiling. The unit won't respond to your hand because it is already triggered by the ceiling thinking it is your hand. The way to tell is to see the periodic white flash every 5 seconds. If it flashes, it means something is being detected. If that wasn't intentional, then reposition the bowl so that no obstacles exist above it below the 1.2 m (4 feet) active detection range.

## LIABILITY WAIVER

NOT RESPONSIBLE FOR BOWL BREAKAGE OR INJURY - Although crystal singing bowls are generally very robust, they might have some rare defects in their internal structure leading to the possibility of breakage while using the Musical Mushrooms®, whether by using it in the intended manner or simply by accidentally dropping parts of it in the bowl during installation. By purchasing and using this product, you agree to release Musical Mushroom Inc. from any financial liability, whether material, physical injury or any other kind of liability. Use at your own risk.



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