

## Introduction

Thank you for your purchase of a high-quality Groove Tubes microphone. Taking a few moments to understand your microphone will help to insure years of exceptional service.

## Unpacking

The container for your microphone was carefully packed for shipping. Please also retain this packaging for transportation in the unlikely event that you need to return the product to the factory for service. If your box does not include the following items, please contact your dealer immediately:

### GT33 / 55 / 57 / Model 1B-FET

- 1) Groove Tubes microphone
- 1) hard case
- 1) hard mount

### GT44 / 66 / 67 / Model 1B

- 1) Groove Tubes microphone
- 1) GT PSM1 power supply
- 1) 25-foot, 6-pin soft audio cable
- 1) AC power cable
- 1) hard mount
- 1) shock mount
- 1) hard case

**Important:** Please fill out and mail your warranty card immediately so that we may provide you with optimal support for your microphone.

## Care of Your Groove Tubes Microphone

Here are a few tips on proper care of your new microphone:

- Never subject the mic to physical shock.
- Always use the recommended shock mount.
- After each use, always wipe the mic exterior down with a soft dry cloth and return the mic to its case or your mic locker. This helps to prevent damage from dust and shock.
- In the event that your mic needs more extensive cleaning, lightly wet a soft cloth with water or a household-cleaning agent and clean the metal exterior of the mic, wiping it completely dry when finished. Never spray a cleaning agent on the microphone itself, as the moisture can damage the unit.
- Avoid subjecting the mic to any kind of moisture, such as rain or singing in the shower. (Avoiding saliva is another good reason to use a windscreen in vocal applications.)

- Always keep the power supply (if applicable) away from moisture as well.
- Never disassemble the mic, except to exchange capsules as prescribed on the GT33 and GT44. There are no user serviceable parts inside. In particular, never touch the gold diaphragm, as this would ruin the mic.
- Always use top quality cables in order to avoid shorts that may damage the microphone electronics.
- Avoid temperature extremes above 95°F and below 50°F. When moving the microphone between outdoor and indoor environments, allow the microphone to acclimate to room temperature before connection and use in order to avoid condensation on the diaphragm.
- Never attempt to change the tube on the GT 44, GT66 or GT67 or Model 1B. Please contact technical support if this is necessary.

## Connections and Phantom Power

Groove Tubes microphones output a balanced, low impedance signal. As such they require the additional signal boost gained from connection to mic-level inputs of a preamp or mixer channel. As with all condenser microphones, your Groove Tubes condenser requires power in order to operate.

### GT33 / 55 / 57 / Model 1B-FET

If you have a GT33, GT55, GT57 or Model 1B-FET, you will need to connect the mic via XLR to a preamp or mixer channel strip that supplies +48-volt phantom power. (Phantom power shares the same XLR cable as the audio from the microphone). In order to avoid loud pops that can damage components like speakers and microphones, always perform the following in the order presented:

1. Turn the gain on your preamp and/or mixer down.
2. Make sure that phantom power is disengaged.
3. Connect the microphone via a high-quality XLR cable.
4. Engage phantom power.
5. Turn up the gain on your preamp and/or mixer.

Reverse this procedure when disconnecting the microphone.

### GT44 / 66 / 67 / Model 1B

If you have a GT44, GT66, GT67 or Model 1B, the included PSM1 power supply provides the required power to the microphone. (While no external phantom power is required, the presence of phantom power will not harm the microphone or power supply.) In order to avoid loud pops that can damage components like speakers and microphones, always perform the following in the order presented:

1. Turn the gain on your preamp and/or mixer all down.
2. Make sure that phantom power is disengaged.

3. Make sure that the PSM1 power supply is turned off.
4. Connect the mic to the PSM1 power supply using the included 25-foot, 6-pin cable.
5. Connect the output of the PSM1 power supply to your preamp or mixer channel via XLR.
6. Turn the PSM1 power supply on.
7. Turn on the phantom power on your mixer if you are using other mics that require phantom power and your mixer only has a global phantom power on/off switch.
8. Turn up the gain on your preamp and/or mixer.

Reverse this procedure when disconnecting the microphone.

## Polar Pattern Switch

The polar pattern of a microphone describes the sensitivity to sound at various angles. All Groove Tubes microphones offer a cardioid polar pattern. The GT57 and GT67 have a switch for multiple polar patterns:

### • **Cardioid Pattern**

Cardioid is the most universal polar pattern found in microphones. This is because the back of the microphone rejects sound, allowing the engineer to isolate the signal source from other performance elements or background noise.

### • **Super-cardioid Pattern**

Super-cardioid pattern exhibits an extremely narrow sensitivity window for very sonically focused recording. Super-cardioid is great for zeroing in on that perfect sweet spot for instruments such as piano or drum. This pattern is also ideal for live recording sessions where isolation is important, including minimizing bleed between a vocalist and their own instrument.

### • **Omni**

Omnidirectional pattern picks up sounds without directional discrimination. Use omni to capture room resonance, yielding a more open sound compared to the more “beamy” quality of cardioid. It’s great for vocal groups, Foley sound effects, and realistic acoustic instruments. Omni is also less sensitive to the proximity of a vocalist to the microphone.

### • **Figure 8**

The figure-8, or bidirectional, pattern is excellent for capturing a duet or interview with a single mic. The -40dB side rejection spec also makes it great for isolating an instrument like a snare from the rest of a drum kit. Figure 8 is also one of the key components to M/S (mid-side) miking—a technique for recording stereo that many pros utilize exclusively.

(Continued on reverse...)

## **Changing Capsules (GT33 and GT44 only)**

The GT33 and GT44 are designed to accommodate interchangeable capsules. They come standard with cardioid capsules, with optional supercardioid and omni capsule available separately. To change capsules, simply unscrew the top of the microphone body. Next unscrew the capsule itself and place it in a safe container. Screw the new capsule in, then screw the top of the microphone body back in place.

## **Sensitivity Pad**

All Groove Tubes microphones, except the Model 1B and Model 1B-FET, feature a switch to engage a pad which reduces the sensitivity of the mic (-10dB on the GT 55, GT57, GT66 and GT67, and -15dB on the GT33 and GT44). These are useful to prevent overloading the microphone electronics or your preamp when recording an extremely loud sound source such as close-miked guitar amps or kick drums. Engage this switch when you must set your preamp input unreasonably low and/or hear distortion. Otherwise, it is recommended that the pad remain disengaged in order to benefit from the best signal-to-noise ratio.

## **Roll-off Filter**

All Groove Tubes microphones, except the Model 1B and Model 1B-FET, feature a switch to roll off frequencies below 75Hz. This is useful in reducing or eliminating low frequency noise such as floor rumbles, mic stand noise and passing trucks, etc.. It can also be used to help eliminate the proximity effect present when using cardioid patterns. (The proximity effect describes the phenomenon of increased bass emphasis or “boomy” sound quality as the sound source gets closer to the microphone.)

## **Service**

In the event that your microphone appears to be malfunctioning, you may phone our technical support department. Should your microphone need repair, our support staff will issue you a Return Authorization number required in order to return the unit.

## **M-Audio Technical Support**

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## **Professional Studio Microphones**

*Users Manual*

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