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GODIYMODULES RK-87

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Model: RK-87 | Brand: GODIYMODULES

1. INTRODUCTION

The GODIYMODULES RK-87 is a 34mm large diaphragm condenser microphone designed for high-quality audio capture. It is particularly suitable for the maintenance and upgrade of high-end microphones, offering a bright sound characteristic. This manual provides essential information for setting up, operating, and maintaining your microphone to ensure optimal performance.



Figure 1: Front view of the GODIYMODULES RK-87 34mm Large Diaphragm Condenser Microphone capsule.

2. WHAT'S IN THE BOX

Your GODIYMODULES RK-87 package includes the following items:

- 1 x RK-87 34mm Large Diaphragm Microphone Capsule (Single-sided)

3. SETUP INSTRUCTIONS

Proper setup is crucial for achieving the best sound quality from your RK-87 microphone. This microphone requires an external audio interface that can supply phantom power (25V-110V).

3.1 Physical Installation

- The diaphragm microphone features ground screw holes and multiple bracket fixing screw holes for secure mounting. Ensure the capsule is firmly attached to your microphone body or mounting bracket.
- Connect the microphone's output to an XLR input on your audio interface using a high-quality XLR cable.

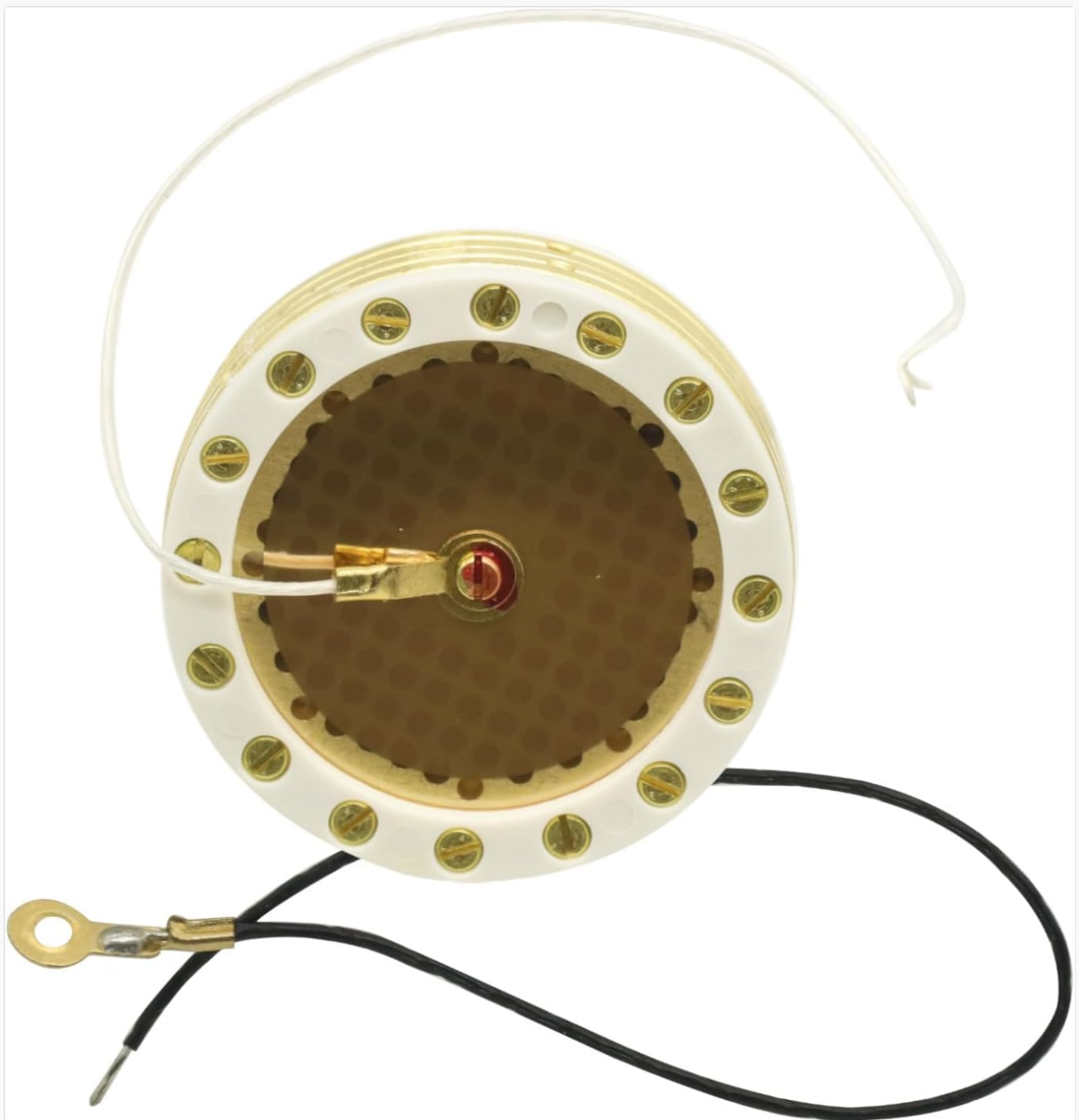


Figure 2: Front view of the RK-87 diaphragm with connecting wires for installation.

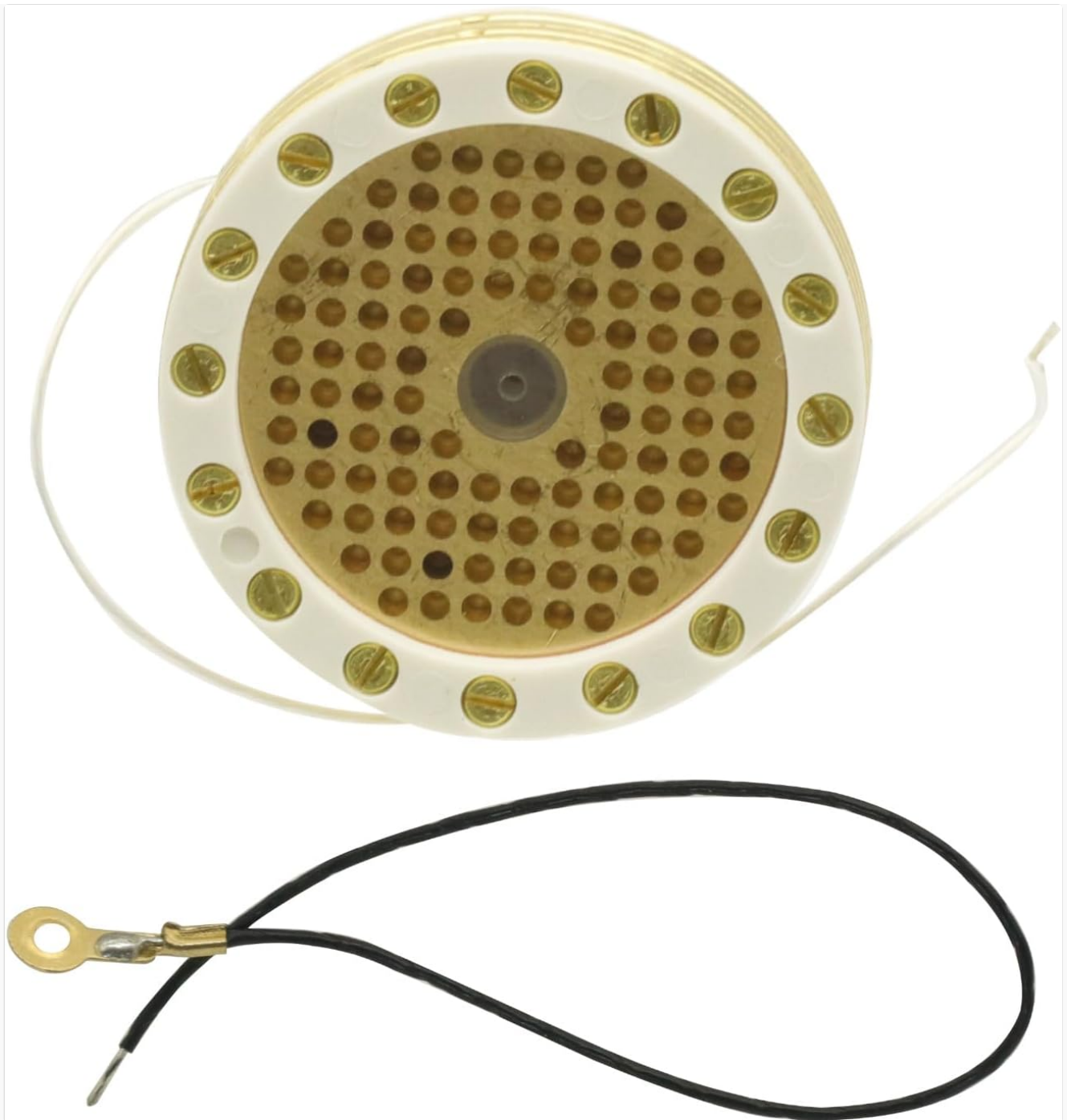


Figure 3: Back view of the RK-87 diaphragm, showing the wiring points.

3.2 Powering the Microphone

The RK-87 is a condenser microphone and requires phantom power. Activate the phantom power (usually +48V) on your audio interface. Refer to your audio interface's manual for specific instructions.



Figure 4: The RK-87 diaphragm housed in a clear protective case, illustrating its delicate nature.



Figure 5: Rear view of the RK-87 diaphragm within its protective casing.

4. OPERATING THE MICROPHONE

The RK-87 is designed to restore the essence of sound to the greatest extent, providing a relatively bright sound. It is ideal for capturing vocals and instruments with clarity and detail.

4.1 Optimal Placement

Experiment with microphone placement relative to the sound source to achieve the desired tonal characteristics. For vocals, a distance of 6-12 inches is often a good starting point. For instruments, consider the instrument's natural sound projection.

4.2 Gain Staging

Adjust the gain on your audio interface to ensure a strong signal without clipping. The RK-87 has a maximum sound pressure level of 140dB (at 1KHz $\leq$ 1% T.H.D), allowing it to handle loud sources.



Figure 6: Side profile of the RK-87 diaphragm, highlighting its construction.

5. MAINTENANCE

To ensure the longevity and performance of your RK-87 microphone, follow these maintenance guidelines:

- Keep the microphone clean and free from dust. Use a soft, dry cloth to wipe the exterior.
- Avoid exposing the microphone to extreme temperatures, humidity, or direct sunlight.
- Handle the microphone capsule with care to prevent damage to the delicate diaphragm.
- Store the microphone in a protective case when not in use.

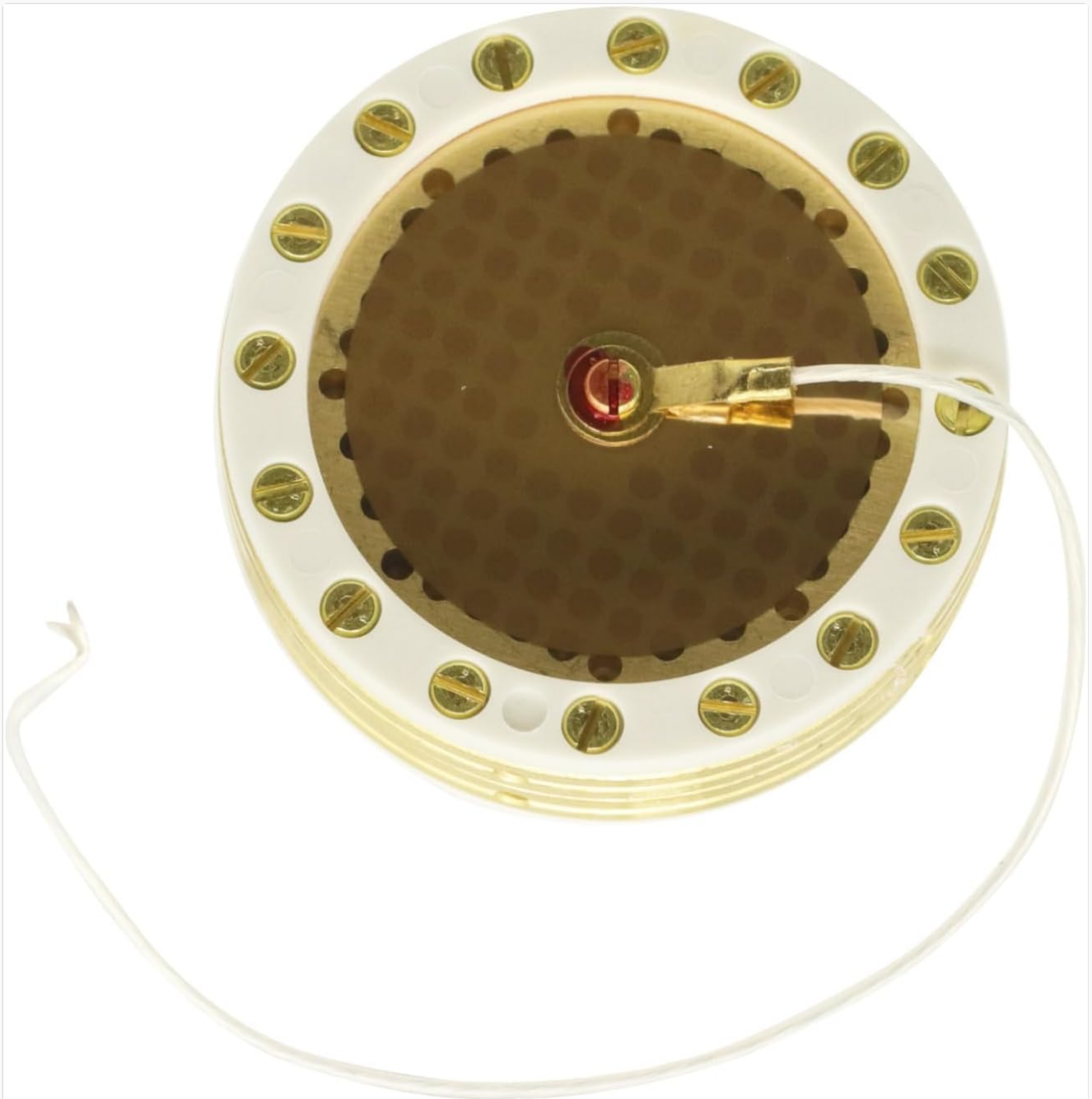


Figure 7: Top-down view of the RK-87 diaphragm, showing the intricate pattern.

6. TROUBLESHOOTING

If you encounter issues with your RK-87 microphone, try the following solutions:

- **No Sound:** Ensure phantom power is activated on your audio interface. Check all cable connections (microphone to interface, interface to computer). Verify input selection on your audio software.
- **Low Volume:** Increase the gain on your audio interface. Ensure the microphone is positioned correctly relative to the sound source.
- **Distorted Sound:** Reduce the gain on your audio interface. Ensure the sound source is not excessively loud for the microphone's SPL capabilities.
- **Hum or Buzz:** Check for proper grounding. Ensure all cables are securely connected and not running parallel to power cables.

7. SPECIFICATIONS

Parameter	Value
Model Name	RK-87
Microphone Form Factor	Large Diaphragm
Unit Size	Φ 34mm x 13.5mm
Sensitivity	-33 (±3) dB (at 1 KHz 0dB=1V/Pa)
Pointing Characteristics	(at 1KHz)
Frequency Response	20Hz-20KHz
Maximum Sound Pressure Level	140dB (at 1KHz≤1% T.H.D)
Voltage Requirement	25V-110V (Phantom Power)
Recommended Uses	Studio Recordings, Voice Recording
Manufacturer	GODIYMODULES

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The GODIYMODULES RK-87 34mm Large Diaphragm Condenser Microphone comes with a **a2-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

8.2 Technical Support

For technical assistance, troubleshooting, or warranty inquiries, please contact GODIYMODULES customer support through the retailer where you purchased the product or visit the official GODIYMODULES website for contact information.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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