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JTS CM-502

JTS CM-502 Vocal Condenser Microphone User Manual

Model: CM-502 | Brand: JTS

INTRODUCTION

The JTS CM-502 is a vocal condenser microphone designed for accurate amplification, particularly suitable for choral productions and overhead installations. It features a supercardioid polar pattern and a wide frequency response, ensuring effective and precise sound pickup. This microphone incorporates self-contained electronics, aiming to simplify setup by eliminating the need for external power modules, and includes a flexible hanger and mounting plate for versatile installation.

KEY FEATURES

- Frequency Response: 100-18,000 Hz for clear and detailed audio capture.
- Polar Pattern: Supercardioid, designed to focus on sound directly in front of the microphone while minimizing off-axis noise.
- Electret Condenser Microphone: Features self-contained electronics, intended to remove the necessity for an external power module.
- Connectivity: Equipped with an XLR connector for professional audio setups.
- Included Accessories: Comes with a windscreen, a directional hanger, and a mounting plate for flexible installation options.

PACKAGE CONTENTS

Please verify that all items listed below are present in your package:

- JTS CM-502 Condenser Microphone
- Windscreen
- Directional Hanger
- Mounting Plate

SETUP GUIDE

Follow these steps to properly set up your JTS CM-502 microphone:

1. **Unpacking:** Carefully remove the microphone and all accessories from the packaging.
2. **Mounting:**
 - For overhead installations, utilize the provided directional hanger to position the microphone. The hanger allows for precise aiming of the microphone towards the sound source.
 - If permanent installation is required, use the mounting plate to securely fix the microphone to a ceiling or wall. Ensure the mounting surface is stable and can support the microphone's weight.
3. **Connection:** Connect the microphone's XLR connector to a compatible audio input on your mixer, audio interface, or recording device. Ensure a secure connection.
4. **Powering:** The CM-502 is designed with self-contained electronics. However, some audio equipment may still require phantom power (+48V) for optimal performance with condenser microphones. If you experience low or no signal, consult your audio equipment's manual regarding phantom power settings.



Image: The JTS CM-502 microphone, showing its compact design, integrated hanger, and attached cable, ready for installation.

OPERATING INSTRUCTIONS

To achieve the best audio quality from your CM-502 microphone:

- **Placement:** Position the microphone to directly face the primary sound source. The supercardioid polar pattern is highly directional, meaning it picks up sound most effectively from the front and rejects sound from the sides and rear.
- **Distance:** Experiment with the distance between the microphone and the sound source. For vocals or instruments, a closer distance generally results in a fuller sound, while a greater distance captures more of the room's acoustics.
- **Gain Staging:** Adjust the input gain on your mixer or audio interface to an appropriate level. Avoid setting the gain too high, which can lead to distortion, or too low, which can result in a noisy signal.

- **Windscreen Usage:** Use the included windscreen, especially in environments with air movement or for vocal applications, to reduce plosive sounds and wind noise.
- ## MAINTENANCE
- Proper care will extend the life and performance of your microphone:
- **Cleaning:** Gently wipe the microphone body with a soft, dry cloth. Do not use liquid cleaners or solvents, as they may damage the microphone's finish or internal components.
 - **Storage:** When not in use, store the microphone in a clean, dry place, away from extreme temperatures and humidity. Protect it from dust and physical impact.
 - **Cable Care:** Avoid sharp bends or kinks in the microphone cable. Store cables neatly to prevent damage.

TROUBLESHOOTING

If you encounter issues with your JTS CM-502 microphone, refer to the following common problems and solutions:

- **No Sound Output:**
 - Ensure the XLR cable is securely connected at both the microphone and the audio input device.
 - Verify that the input channel on your mixer or interface is selected and its gain is turned up.
 - Although the CM-502 has self-contained electronics, some audio devices may still require phantom power (+48V) for condenser microphones. Check if phantom power is enabled on your mixer/interface.
 - Test with a different XLR cable to rule out cable malfunction.
- **Low Volume or Weak Signal:**
 - Increase the input gain on your audio device.
 - Ensure the microphone is pointed directly at the sound source, utilizing its supercardioid pattern effectively.
 - Confirm phantom power is supplied if your setup requires it.
- **Feedback or Squealing Noise:**
 - Reduce the overall volume or the gain of the microphone channel.
 - Reposition the microphone further away from loudspeakers or monitors.
 - Adjust the microphone's angle to minimize pickup from speakers.
 - Consider using an equalizer to cut problematic frequencies.
- **Distorted Sound:**
 - Reduce the input gain on your audio device. The signal might be too strong, causing clipping.
 - Ensure the microphone is not overloaded by excessively loud sound sources.

SPECIFICATIONS

Attribute	Value
Model Number	CM-502
Microphone Type	Electret Condenser

Attribute	Value
Polar Pattern	Supercardioid
Frequency Response	100-18,000 Hz
Audio Sensitivity	40 dB
Connectivity Technology	XLR
Item Weight	275 Grams (9.7 ounces)
Product Dimensions (L x W x H)	6.39 x 0.5 x 0.5 inches
Color	Black
Recommended Uses	Singing, Video Recording, Voice Recording

WARRANTY AND SUPPORT

For warranty information and technical support regarding your JTS CM-502 microphone, please refer to the documentation provided with your purchase or visit the official JTS website. Keep your proof of purchase for warranty claims.

If you require further assistance or have questions not covered in this manual, please contact JTS customer service through their official channels.

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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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Question

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