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## Electro-Voice RE520

# Electro-Voice RE520 Handheld Condenser Microphone User Manual

## 1. INTRODUCTION

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This manual provides essential information for the proper use and care of your Electro-Voice RE520 Handheld Condenser Microphone. The RE520 is engineered for vocal performance, featuring a supercardioid polar pattern for excellent off-axis rejection and a wide frequency response tailored for the human voice. Please read this manual thoroughly before operating the microphone to ensure optimal performance and longevity.

## 2. PRODUCT OVERVIEW

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### 2.1 Key Features

- Supercardioid polar pattern for focused sound capture and feedback rejection.
- Wide frequency response (40Hz-20kHz) optimized for vocal clarity.
- Integrated 150Hz bass roll-off switch to reduce proximity effect and low-frequency rumble.
- Rugged Memraflex grille designed for durability and dent resistance.
- Requires 48V phantom power for operation.

### 2.2 What's in the Box

- Electro-Voice RE520 Handheld Condenser Microphone



Figure 1: The Electro-Voice RE520 Handheld Condenser Microphone, showcasing its robust design and grille.



Figure 2: A close-up view of the RE520 model designation on the microphone body.

## 3. SETUP

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### 3.1 Connecting the Microphone

1. Ensure your audio mixer or interface is powered off before making connections.
2. Connect a standard 3-pin XLR cable to the microphone's output connector.
3. Connect the other end of the XLR cable to an available microphone input on your mixer or audio interface.
4. Activate 48V phantom power on the corresponding channel of your mixer or interface. The RE520 requires phantom power to operate.



Figure 3: The XLR output connector located at the base of the RE520 microphone for audio signal transmission.

### 3.2 Microphone Placement

For optimal vocal performance, hold the microphone approximately 2-6 inches (5-15 cm) from your mouth. Experiment with distance and angle to achieve the desired tone and to minimize plosive sounds (P, B sounds). The supercardioid pattern is most sensitive directly in front of the microphone, providing excellent rejection of sounds from the sides and rear.

## 4. OPERATION

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### 4.1 Bass Roll-Off Switch

The RE520 features an internal 150Hz bass roll-off switch. This switch is designed to reduce low-frequency rumble, stage noise, and the proximity effect (an increase in bass response when the microphone is close to the sound source). To access the switch:

1. Carefully unscrew the microphone grille.
2. Locate the small switch near the microphone capsule.
3. Toggle the switch to the desired position (flat or roll-off).
4. Gently reattach the grille, ensuring it is securely fastened.



Figure 4: Internal view of the RE520, highlighting the bass roll-off switch for low-frequency attenuation.

## 4.2 Gain Staging

Proper gain staging is crucial for optimal sound quality. Adjust the gain on your mixer or interface so that the input signal is strong without clipping (distortion). Monitor your levels carefully to prevent overloading the microphone or the input stage of your equipment.

## 5. MAINTENANCE

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### 5.1 Cleaning

- The Memraflex grille can be gently cleaned with a soft, dry cloth. For more thorough cleaning, the grille can be carefully unscrewed and wiped with a slightly damp cloth. Ensure the grille is completely dry before reattaching.
- Do not use harsh chemicals or abrasive cleaners on any part of the microphone.
- Avoid getting moisture into the microphone capsule.

### 5.2 Storage

Store the microphone in a dry, dust-free environment when not in use. Protect it from extreme temperatures and humidity. Using a microphone pouch or case is recommended to prevent physical damage.

## 6. TROUBLESHOOTING

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### 6.1 No Sound Output

- **Check Phantom Power:** Ensure 48V phantom power is activated on the connected mixer or interface channel. The RE520 will not operate without it.
- **Cable Connection:** Verify that the XLR cable is securely connected at both the microphone and the input device. Try a different XLR cable to rule out a faulty cable.
- **Input Gain:** Confirm that the input gain on your mixer or interface is set appropriately and not turned down completely.
- **Mixer/Interface Settings:** Check that the correct input channel is selected and not muted on your audio equipment.

### 6.2 Feedback Issues

- **Microphone Placement:** Position the microphone away from loudspeakers and monitors. The supercardioid pattern offers best rejection directly from the rear.
- **Gain Reduction:** Lower the input gain on your mixer or interface.
- **Equalization:** Use an equalizer to cut frequencies that are causing feedback.
- **Bass Roll-Off:** Engage the 150Hz bass roll-off switch if low-frequency feedback is an issue.

### 6.3 Distorted Sound

- **Input Gain:** Reduce the input gain on your mixer or interface. The signal may be too hot, causing clipping.
- **Proximity Effect:** If distortion is due to excessive bass, increase the distance between the microphone and the sound source, or engage the bass roll-off switch.

## 7. SPECIFICATIONS

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Specification	Value
Brand	Electro-Voice
Model Name	RE520

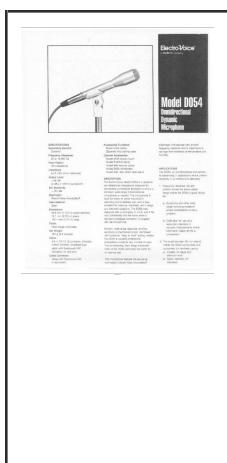
Specification	Value
Item Model Number	F.01U.346.237
Microphone Form Factor	Handheld
Polar Pattern	Unidirectional (Supercardioid)
Connectivity Technology	XLR
Connector Type	XLR
Frequency Response	40 Hz - 20 kHz
Impedance	150 Ohm
Audio Sensitivity	133 Decibels
Signal-to-Noise Ratio	78 dB
Power Source	Corded Electric (48V Phantom Power)
Material	Zinc, Paint, Steel
Color	Black
Item Weight	1.28 pounds (0.58 kg)
Product Dimensions (L x W x H)	10.04 x 5.12 x 2.76 inches (25.5 x 13 x 7 cm)
UPC	800549873611

## 8. WARRANTY AND SUPPORT

Electro-Voice products are manufactured to high standards and are backed by a manufacturer's warranty. For specific warranty details, registration, or technical support, please refer to the official Electro-Voice website or contact your authorized dealer. Keep your proof of purchase for warranty claims.

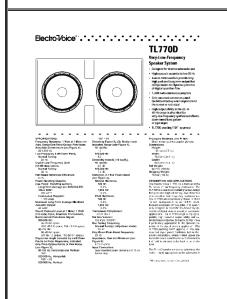
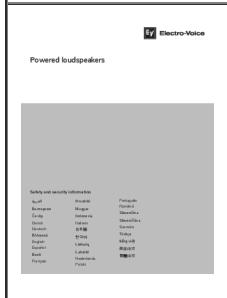
For further assistance, visit the official Electro-Voice Store: [Electro-Voice Store](#)

### Related Documents - RE520



#### [Electro-Voice Model D054 Omnidirectional Dynamic Microphone Specifications and Applications](#)

Comprehensive technical specifications, features, description, and applications for the Electro-Voice Model D054 omnidirectional dynamic microphone, a professional audio tool.

	<p><a href="#"><b>Electro-Voice N/D267a &amp; N/D267as Wired Microphone User Manual</b></a></p> <p>Comprehensive user manual for the Electro-Voice N/D267a and N/D267as wired microphones, detailing features, operation, placement, specifications, and warranty information.</p>
	<p><a href="#"><b>Electro-Voice R300 UHF Wireless Microphone System Quick Start Guide</b></a></p> <p>A concise guide to setting up and using the Electro-Voice R300 UHF Wireless Microphone system, covering both handheld and bodypack transmitter configurations with step-by-step instructions.</p>
	<p><a href="#"><b>Electro-Voice R300 UHF Wireless Microphone System User Guide</b></a></p> <p>Comprehensive user guide for the Electro-Voice R300 UHF Wireless Microphone System, covering quick setup, detailed component descriptions, operational guidelines, troubleshooting, FAQs, specifications, and service information for optimal performance.</p>
	<p><a href="#"><b>Electro-Voice TL770D: Very-Low-Frequency Cinema Subwoofer System Specifications</b></a></p> <p>Detailed technical specifications and overview of the Electro-Voice TL770D, a very-low-frequency speaker system designed for high-output cinema subwoofer applications with dual DL18MT woofers.</p>
	<p><a href="#"><b>Electro-Voice Powered Loudspeakers: Safety and Security Information</b></a></p> <p>Comprehensive safety and security instructions for Electro-Voice powered loudspeakers, covering important warnings, precautions, and installation guidelines across multiple languages.</p>