

Electro-Harmonix MICRO

Electro-Harmonix Micro Synth Analog Guitar Synthesizer Pedal User Manual

INTRODUCTION

The Electro-Harmonix Micro Synth is an analog guitar synthesizer pedal designed to transform your guitar's sound into classic vintage synthesizer tones. This pedal offers a wide range of sonic possibilities, from percussive stabs to bowed effects, without requiring special guitar pickups. Its intuitive slider interface allows for precise control over various voice and filter parameters.

SETUP

Power Connection

- Connect the provided 9V DC power adapter to the 9V power jack on the top right of the Micro Synth pedal.
- Plug the power adapter into a standard AC outlet. The 'POWER ON' LED will illuminate when the unit is receiving power.

Audio Connections

- Connect your guitar to the **INPUT** jack on the right side of the pedal using a standard 1/4-inch instrument cable.
- Connect the **OUTPUT** jack on the left side of the pedal to your amplifier or other effects pedals using another 1/4-inch instrument cable.



Image: Top view of the Electro-Harmonix Micro Synth pedal, illustrating the layout of the sliders for Voice Mix and Filter Sweep, along with the input, output, and power connections.

CONTROLS AND OPERATION

The Micro Synth features ten sliders to control various aspects of the synthesized sound. These are divided into two main sections: Voice Mix and Filter Sweep.

Voice Mix Section

This section allows you to blend different sonic elements to create your base synthesizer tone.

- **TRIGGER:** Adjusts the sensitivity of the envelope follower. Higher settings make the synth respond to lighter playing.
- **SUB OCTAVE:** Controls the volume of a signal one octave below the original guitar signal.
- **GUITAR:** Controls the volume of your original, unprocessed guitar signal.
- **OCTAVE:** Controls the volume of a signal one octave above the original guitar signal.
- **SQUARE WAVE:** Controls the volume of a square wave signal, which can be used for distortion or synth textures.

Attack Delay

This slider controls the attack time of the synthesized sound, allowing for softer, slower swells or immediate, percussive

attacks.

- **ATTACK DELAY:** Adjusts the time it takes for the synthesized sound to reach its full volume. Lower settings result in a faster attack, while higher settings create a slower, swelling effect.

Filter Sweep Section

This section shapes the tonal characteristics of the synthesized sound, allowing for dynamic filter effects.

- **RESONANCE:** Controls the emphasis of the filter's cutoff frequency, adding a 'wah' or 'vowel' quality.
- **START FREQ:** Sets the initial frequency of the filter sweep.
- **STOP FREQ:** Sets the final frequency of the filter sweep.
- **RATE:** Controls the speed at which the filter sweeps from the Start Frequency to the Stop Frequency.

Your browser does not support the video tag.

Video: A demonstration of the Electro-Harmonix Micro Synthesizer, showcasing its various voice mix and filter sweep capabilities with a guitar. The video illustrates how to adjust sliders for sub-octave, octave, square wave, guitar signal, attack delay, resonance, and filter sweep frequencies and rate to achieve different synth sounds.

EXAMPLE SETTINGS

The Micro Synth offers a vast array of sounds. Here are a few examples of how to achieve distinct effects:

- **Bowed Effect:** To achieve a bowed string sound, set the **ATTACK DELAY** to a higher value (slower attack). Experiment with blending the **SUB OCTAVE** and **OCTAVE** voices, and adjust the **RESONANCE** for a vocal-like quality.
- **Percussive Synth:** For a sharp, percussive synth sound, set the **ATTACK DELAY** to a lower value (fast attack). Focus on the **SQUARE WAVE** and **OCTAVE** voices, and use the **FILTER SWEEP** to create a quick, sharp tonal change.
- **Fat Analog Lead:** Blend the **SUB OCTAVE**, **GUITAR**, and **OCTAVE** voices. Set the **ATTACK DELAY** to a medium setting for sustain. Adjust the **RESONANCE** and **START/STOP FREQ** to find a sweet spot for a thick, sustained lead tone.

SPECIFICATIONS

Feature	Detail
Brand	Electro-Harmonix
Model Name	Micro Synth
Model Number	MICRO
Style	Compact
Item Weight	1.98 Pounds
Audio Output Effects	Synth, Distortion
Signal Format	Analog
Item Dimensions	13 x 10 x 2.7 inches
Unit Count	1.0 Count

MAINTENANCE

To ensure the longevity and optimal performance of your Electro-Harmonix Micro Synth, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe down the pedal's exterior. Avoid abrasive cleaners or solvents, which can damage the finish or internal components.
- **Storage:** Store the pedal in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity. When not in use for extended periods, disconnect the power supply.
- **Handling:** Handle the pedal with care to prevent physical damage to the sliders, jacks, and footswitch.

TROUBLESHOOTING

If you encounter issues with your Micro Synth, consider the following common troubleshooting steps:

- **No Power:** Ensure the 9V DC power adapter is correctly connected to both the pedal and a working power outlet. Verify that the power adapter is the correct type and voltage for the Micro Synth.
- **No Sound:** Check all instrument cables for proper connection and functionality. Ensure your guitar's volume is up and your amplifier is on and set to an audible volume. Confirm that the Micro Synth's output slider is not set to zero.
- **Unwanted Noise/Hum:** Try using a different power outlet or a dedicated power supply designed for guitar pedals to minimize interference. Ensure all cables are in good condition and properly shielded.
- **Synth Effect Not Engaging:** Ensure the footswitch is pressed to engage the effect (the 'POWER ON' LED indicates power, not effect engagement). Adjust the TRIGGER slider to ensure it is sensitive enough to your playing dynamics.

WARRANTY AND SUPPORT

The Electro-Harmonix Micro Synth comes with a **1-year manufacturer defect warranty**. For warranty claims, technical support, or further assistance, please contact Electro-Harmonix directly or visit their official website.

You can also find more information and products from Electro-Harmonix by visiting the [Electro-Harmonix Store](#).

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question