



## electro-harmonix SYNTH9 Synthesizer Machine User Guide

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### electro-harmonix SYNTH9 Synthesizer Machine

Congratulations on purchasing the Electro-Harmonix SYNTH9 Synthesizer Machine. The SYNTH9 does for analog synthesizers what the B9 did for organs and the KEY9 did for electric pianos: now anyone with an electric guitar can play analog synth emulations of classic Moog®, Oberheim®, and ARP' synthesizers, amongst others, without the need for extra devices such as cumbersome 13-pin MIDI pickups!

**WARNING:** Your SYNTH9 comes equipped with an Electro-Harmonix 9.6DC-200131 power supply (same as used by Bose & Ibanez: 9.6 Volts DC 200mA). The SYNTH9 requires 100mA at 9VDC with a center-negative plug. Using the wrong adapter or a plug with the wrong polarity may damage your SYNTH9 and void the warranty.

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## GETTING STARTED

Connect the supplied power adapter to the 9V power jack. Plug your instrument into the INPUT jack. Connect your amp to the SYNTH OUTPUT jack. Set the DRY knob to a minimum (fully counterclockwise) and set the other top row knobs to 12 o'clock. Select a preset ("OBX" is a good starting point) and step on the footswitch to turn on the LED. Play your instrument and adjust controls to your liking. For further inspiration check out the SYNTH9's SUGGESTED FACTORY SETTINGS insert. Make copies of the included SYNTH9 USER SETTINGS page to

keep track of your favorite sounds and settings.

## CONTROLS AND I/O JACKS

### DRY VOL KNOB

The DRY VOL knob controls the volume of the untreated instrument signal present at the SYNTH OUTPUT jack.

### SYNTH VOL KNOB

For all presets except MINI MOOD, the SYNTH VOL knob controls the overall volume of the selected preset at the SYNTH OUTPUT jack. In MINI MOOD, SYNTH VOL controls the volume of the non-portamento synthesizer; CTRL 1 controls the volume of the portamento synthesizer.

### CTRL 1 & CTRL 2 KNOBS

See the preset descriptions on the following pages for details.

### PRESET KNOB

Turn the white numbered knob to select a preset sound.

### INPUT JACK

Plug your instrument or the output of another effects pedal into this  $\frac{1}{4}$ " jack. See lips 1 & 2 on the following page for more on connecting your SYNTH9.

### DRY OUTPUT JACK

The DRY OUTPUT jack outputs the signal present at the INPUT jack through a buffer circuit. In either EFFECT or BYPASS mode, the dry signal is always present at the DRY OUTPUT jack.

### SYNTH OUTPUT JACK

The SYNTH OUTPUT jack outputs the mix set by the DRY and SYNTH volume controls. In BYPASS mode, SYNTH OUTPUT outputs the buffered bypass signal.

### BYPASS FOOTSWITCH

Press the BYPASS footswitch to toggle the SYNTH OUTPUT jack between buffered BYPASS and EFFECT mode. The status LED lights when you are in EFFECT mode.

## PRESET DESCRIPTIONS

1. **OBX** — An emulation of the meaty-sounding Oberheim® OB-X. CTRL 1 is a tone control. Use CTRL 2 to select between 4 octaves.
2. **PROFIT V** — The Sequential Circuits Prophet-5 provides inspiration for our versatile PROFIT V preset. CTRL 1 adjusts the sweep time of a downward filter envelope. CTRL 2 selects between 8 intervals of either octaves or 5ths.
3. **VIBE SYNTH** — A polyphonic synthesizer with decaying harmonic content and CTRL 1 sets the power and sweep range of harmonics. CTRL 2 adjusts both vibrato rate and depth simultaneously. As you turn CTRL 2 clockwise the vibrato rate and amount increase.
4. **MINI MOOD** — A big-sounding Moog® inspired synthesizer that blends a portamento synth with a non-portamento synth. (Portamento is when notes glide from one to another.) Turn the SYNTH VOL knob to set the volume of the non-portamento synthesizer. Use CTRL 1 to adjust the output volume of the portamento notes. CTRL 2 sets portamento time. This preset works best when you play monophonically, one note at a time, where every note is To play faster licks, try turning down CTRL 1.
5. **EHX MINI** — An emulation of the classic Electro-Harmonix Mini Synth. CTRL 1 sets filter envelope sweep time and direction. When CTRL 1 is set to a point within its counter-clockwise range, it sets the attack time for the filter sweep; when set clockwise beyond “noon” it controls the decay time of the filter sweep. CTRL 2 selects between 4 octaves.
6. **SOLO SYNTH** — A fuzz-synth preset where a synth oscillator and a fuzzy square wave guitar are combined to create one single extreme synth tone! CTRL 1 is a tone control. CTRL 2 selects between 4 octaves.
7. **MOOD BASS** — The Mini Moog® and Taurus pedals served as inspiration for this preset. MOOD BASS works best when played monophonically. CTRL 1 adjusts the sweep time of a downward filter sweep. CTRL 2

chooses between 3 octaves.

8. **STRING SYNTH** — Our emulation of an ARP® string synth. CTRL 1 is a tone CTRL 2 sets filter sweep attack time.
9. **POLY VI** — Inspired by the Korg® Polysix. CTRL 1 is a tone control. CTRL 2 sets modulation depth.

## NOTES AND SPECIFICATIONS

- Buffered bypass
- Input impedance: 1MQ
- Output impedance (for both output jacks): 5000
- Current draw: 100mA

## TIPS ON GETTING OPTIMUM PERFORMANCE FROM THE SYNTH9

1. The SYNTH9 is generally best used as the first pedal in an effects chain. Place modulation, delay, and reverb effects after the SYNTH9. The unit will not perform well if placed in the effects loop of a guitar amp.
2. For optimal playability, set the guitar's pickup selector to the bridge pickup and turn the volume knob all the way up ("10").
3. Avoid placing a distortion or overdrive in front of the SYNTH9, which could muddy up the input signal and cause the tracking to be unstable. If you want to add overdrive or distortion, place it after the SYNTH9.
4. The SYNTH9 has a built-in compressor that is active on the synth sounds at all times. We recommend you do not insert another compressor into your signal chain while the SYNTH9 is in effect mode.
5. The usable tracking range on the SYNTH9 extends up to about the 23rd fret on the high-E of a standard guitar and down to the open A-string on bass. The SYNTH9 sounds equally good on bass as it does guitar.

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**Moog is a registered trademark of Moog Musk.**

**Oberheim is a registered trademark of Musk Corp. IP Ltd. Sequential is a registered trademark of Dave Smith Instruments.**

## WARRANTY INFORMATION

Please register online at <http://www.ehx.com/product-registration> or complete and return the enclosed warranty card within 10 days of purchase. Electro-Harmonix will repair or replace, at its discretion, a product that fails to operate due to defects in materials or workmanship for a period of one year from the date of purchase. This applies only to original purchasers who have bought their product from an authorized Electro-Harmonix retailer. Repaired or replaced units will then be warranted for the unexpired portion of the original warranty term. If you should need to return your unit for service within the warranty period, please contact the appropriate office listed below. Customers outside the regions listed below, please contact EHX Customer Service for information on warranty repairs at [info@ehx.com](mailto:info@ehx.com) or +1718-937-8300. USA and Canadian customers: please obtain a **Return Authorization Number (RA#)** from EHX Customer Service before returning your product. Include with your returned unit- a written description of the problem as well as your name, address, telephone number, e-mail address, RA#, and a copy of your receipt clearly showing the purchase date.

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| <p><b>United States; &amp; Canada</b><br/> EHX CUSTOMER SERVICE ELECTRO-HARMONIX<br/> c/o NEW SENSOR CORP. 47-50 33RD STREET<br/> LONG ISLAND CITY, NY 11101<br/> Tel: 718-937-8300<br/> Email: <a href="mailto:info@ehx.com">info@ehx.com</a></p> | <p><b>Europe</b><br/> JOHN WILLIAMS ELECTRO-HARMONIX UK<br/> 13 CWMDONKIN TERRACE SWANSEA SA2 0RQ<br/> UNITED KINGDOM<br/> Tel: +44 179 247 3258<br/> Email: <a href="mailto:electroharmonixuk@virginmedia.com">electroharmonixuk@virginmedia.com</a></p> |
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To hear demos on all EHX pedals visit us on the web at [www.ehx.com](http://www.ehx.com) Email us at [info@ehx.com](mailto:info@ehx.com)

## FCC COMPLIANCE

**Note:** This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one or more of the following measures:

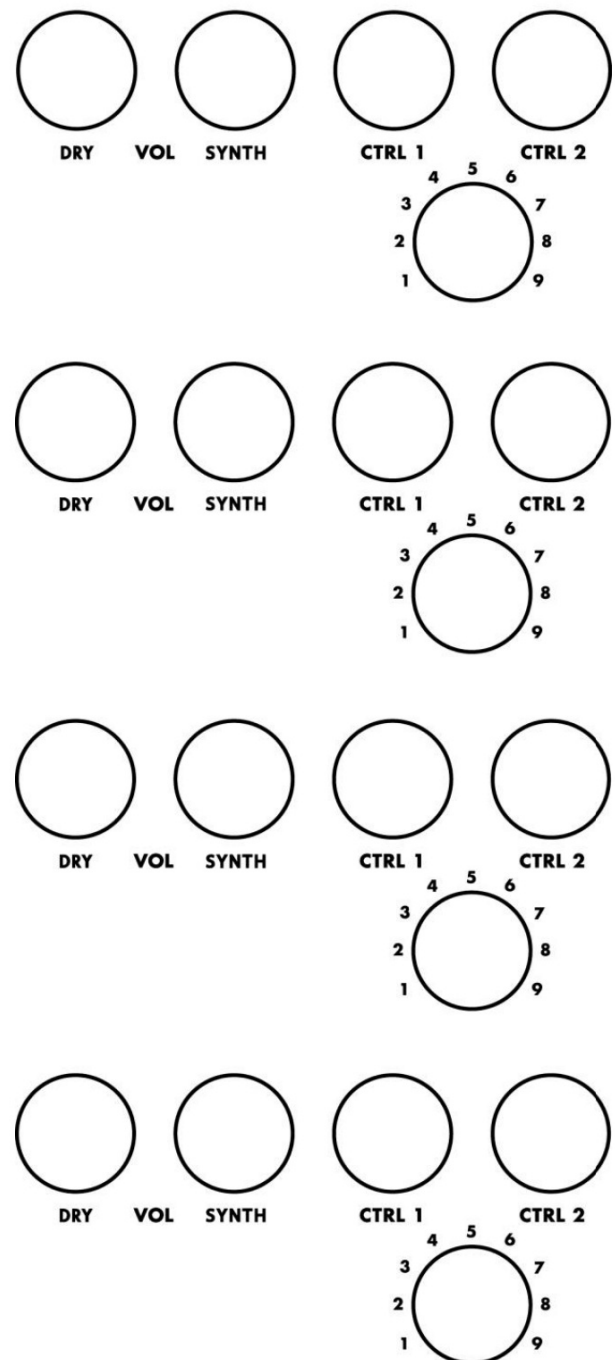
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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## SYNTH9 SUGGESTED FACTORY SETTINGS

| PRESET          | CTRL 1 |     | CTRL 2 |                   |
|-----------------|--------|-----|--------|-------------------|
| 1. OBX          | DRY    | VOL | SYNTH  | TONE              |
| 2. PROFIT V     | DRY    | VOL | SYNTH  | FILTER SWEEP TIME |
| 3. VIBE SYNTH   | DRY    | VOL | SYNTH  | TONE              |
| 4. MINI MOOD    | DRY    | VOL | SYNTH  | VIBE SPEED        |
| 5. EHX MINI     | DRY    | VOL | SYNTH  | TONE              |
| 6. SOLO SYNTH   | DRY    | VOL | SYNTH  | TONE              |
| 7. MOOD BASS    | DRY    | VOL | SYNTH  | TONE              |
| 8. STRING SYNTH | DRY    | VOL | SYNTH  | TONE              |
| 9. POLY VI      | DRY    | VOL | SYNTH  | TONE              |

## SYNTH9 USER SETTINGS



## Documents / Resources

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| <p><b>electro-harmonix</b><br/><b>SYNTH9</b><br/>Synthesizer Machine</p> <p>Copyright © 2019 Electro-Harmonix. All rights reserved. This document is the property of Electro-Harmonix and is not to be reproduced without written permission. The information contained herein is for informational purposes only and is not intended to be used as a substitute for professional advice. The information contained herein is for informational purposes only and is not intended to be used as a substitute for professional advice. The information contained herein is for informational purposes only and is not intended to be used as a substitute for professional advice.</p> <p><b>CONTROLS AND USER GUIDE</b></p> <p><b>DRY</b> knob: Controls the amount of reverb. The knob is marked from 0 to 10. The default setting is 5.</p> <p><b>VOL</b> knob: Controls the volume. The knob is marked from 0 to 10. The default setting is 5.</p> <p><b>SYNTH</b> knob: Controls the synth sound. The knob is marked from 0 to 10. The default setting is 5.</p> <p><b>CTRL 1</b> knob: Controls the filter sweep time. The knob is marked from 0 to 10. The default setting is 5.</p> <p><b>CTRL 2</b> rotary switch: Controls the tone. The switch has positions 1 through 9. The default setting is 1.</p> | <p><a href="#">electro-harmonix SYNTH9 Synthesizer Machine [pdf] User Guide</a></p> <p>SYNTH9, Synthesizer Machine, Synthesizer</p> |
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## References

- [info@ehx.com](mailto:info@ehx.com)

-  [Electro-Harmonix](#)

Manuals+