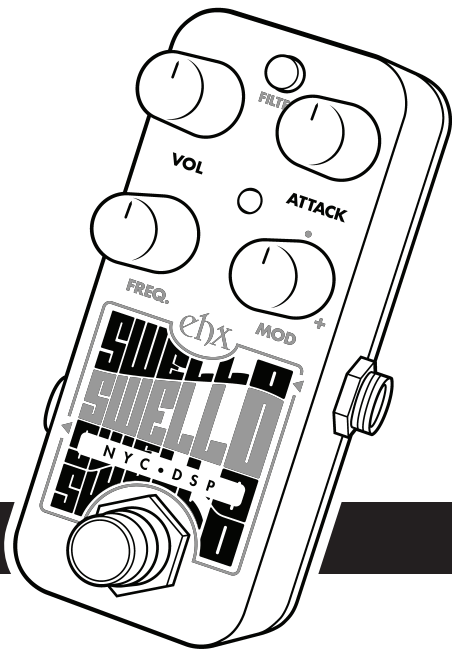# ehx

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SWELLO

User Manual

Attack Envelope

Welcome to the Electro-Harmonix Swello, a compact pedal that slows the volume envelope of your instrument to create polyphonic swell and reverse effects. Inspired by the ATTACK slider on the POG2 Polyphonic Octave Generator, the Swello gives each note you play its own volume swell and works seamlessly with any guitar without the need to set a sensitivity control or adjust your playing style. Additionally, the Swello includes a low-pass filter with two configurable resonance settings. The filter frequency can also be modulated by the attack envelope to create polyphonic envelope filter effects.

Operating Instructions

Insert the output plug from the supplied 9VDC AC adapter into the power jack at the top of the Swello. The unit must be powered to pass signal, even in bypass. The pedal features buffered analog bypass. Connect an instrument cable from your instrument to the Input jack. Connect an instrument cable between the Output jack and a suitable amplifier. Press the footswitch to engage the Swello and light the LED.
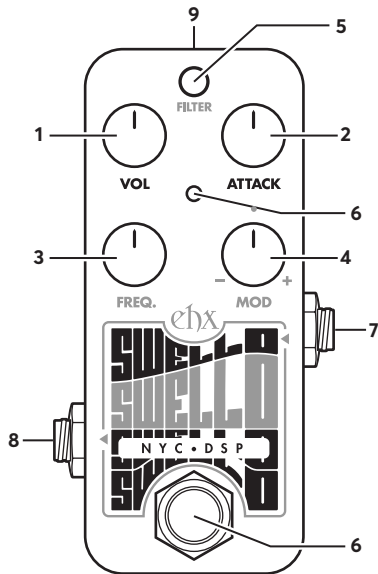
Power Supply Requirements: Voltage: 9VDC   Current: 100mA   Polarity: Center-Negative

This device comes equipped with an Electro-Harmonix 9.6DC-200 power supply. Use of the wrong adapter or a plug with the wrong polarity may damage the device and void the warranty. Do not exceed 10.5VDC on the power plug. Power supplies rated for less than 100mA may cause the device to act unreliably.

Controls & Jacks

1. VOL Adjusts the output volume.

2. ATTACK Controls the attack envelope time. As the ATTACK knob is turned clockwise, the attack time increases producing a slower swell, reverse effect, or filter sweep.

3. FREQ Controls the cutoff frequency of the low-pass filter when it is active—LED set to orange or red modes. If filter modulation is enabled via the MOD knob, FREQ sets the maximum frequency of the filter. The filter is fully disabled when the LED is set to green.

4. MOD Controls the depth and direction of the filter envelope. The timing of the envelope filter modulation is directly tied to the ATTACK knob. Filter modulation is disabled when MOD is at the center (noon) position or when the filter is off.

Turn MOD clockwise from the center position for upward filter sweep. The envelope sweeps up to the frequency set by the FREQ knob. The farther clockwise you turn MOD, the wider the sweep and the lower the starting frequency when the swell begins.

Turn MOD counterclockwise from the center position for downward filter sweep. The filter sweep starts at the frequency set by the FREQ knob. The farther counterclockwise you turn MOD, the lower in frequency the filter sweep goes.

5. FILTER Button Enables the low-pass filter and chooses the filter resonance setting:

Green	**–**	**The filter is disabled.**
Orange	**–**	**The filter is enabled with a low resonance setting.***
Red	**–**	**The filter is enabled with a high resonance setting.***

*NOTE: These resonance settings can be changed, see the section Resonance Adjustment.

6. Footswitch and Status LED The footswitch engages or bypasses the effect. The LED color indicates the filter state. In bypass mode, the LED is off.

7. Input Jack Impedance: 2.2MΩ, Max In: +1.5dBu

8. Output Jack Impedance: 680Ω, Max Out: +2.1dBu

9. Power Jack Current draw: 100mA at 9.0VDC

Resonance Adjustment

By default, the filter resonance, or Q, is set low for orange mode and high for red mode. Each mode may be adjusted independently to suit your taste, allowing for two resonance presets:

1. Press and hold the FILTER button.

2. After two seconds, the LED blinks.

3. Release the button—Resonance Adjustment mode is now active.

4. The VOL knob controls the resonance setting for **orange** mode while the ATTACK knob controls the resonance setting for **red** mode.

5. You may still press the FILTER button to switch between filter modes, and the FREQ and MOD knobs work as usual.

6. When you're finished making your resonance adjustments, exit Resonance Adjustment mode with another press and hold of the FILTER button for two seconds, until the LED stops blinking.

The resonance settings are stored in memory and remain until changed again by the user. See the following **Factory Restore** section to restore the resonance settings to their factory default.

Factory Restore

A reset can be performed on the Swello to restore all settings to their factory defaults. To perform a factory restore, follow these steps:

1. Power down the Swello.

2. Press and hold the footswitch while reapplying power.

3. Continue to hold down the footswitch for about two seconds, the LED will cycle through all three colors twice before settling on green.

4. The factory restore is complete. Release the footswitch.

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Questions about this product?

Email: **info@ehx.com**