



## electro-harmonix EHX Pico Pitch Fork User Manual

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electro-harmonix EHX Pico Pitch Fork



Product Information

Product Name	Pico Pitch Fork
Product Type	Polyphonic Pitch Shifter
Description	A compact, polyphonic pitch-shifter/harmony pedal that transposes the pitch of your instrument over a range of up to +/- 3 octaves. It offers three pitch-shifting modes for transposing the pitch up, down, or both simultaneously. The pedal also features a footswitch with two different modes: Latching and Momentary.

Product Usage Instructions

1. Insert the output plug from the supplied 9VDC AC adapter into the power jack at the top of the Pico Pitch Fork. The unit must be powered to pass signal, even in bypass.
2. Connect an instrument cable from your instrument to the Input jack of the Pico Pitch Fork.
3. Connect an instrument cable between the Output jack of the Pico Pitch Fork and a suitable amplifier.
4. Click the footswitch to engage the Pico Pitch Fork and light the LED. The LED color indicates the selected pitch mode.
5. Adjust the VOL knob to control the output volume.
6. Use the BLEND knob to adjust the output mix from 100% dry to 100% wet.
7. Set the SWEEP knob to control the pitch bend sweep time when toggling between bypass and effect. Higher

settings result in longer sweep time, with a maximum of 4 seconds. Set SWEEP to minimum to bypass pitch sweep.

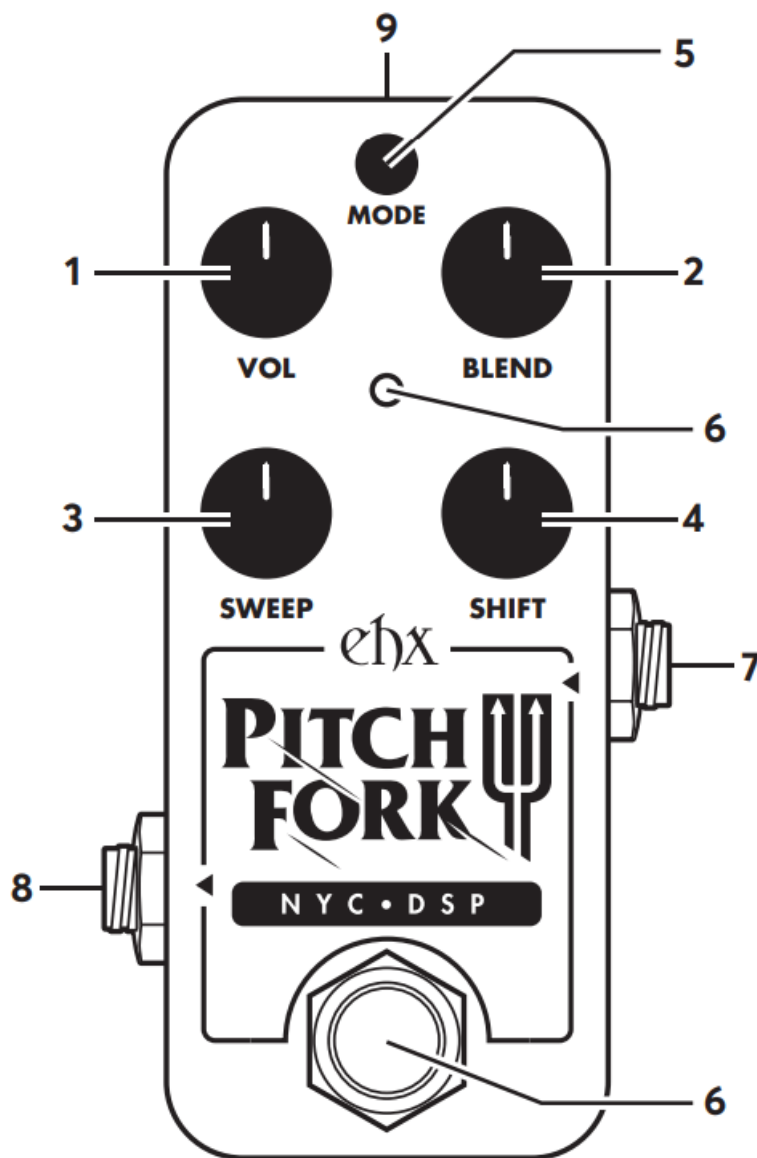
8. Use the SHIFT knob to control the pitch shift interval relative to the input signal. The intervals are incremented as you move the knob from minimum to maximum. The LED flashes briefly each time a new interval is selected. The available intervals are:

Interval Number	Interval Name
1	DETUNE
2	MINOR SECOND
3	MAJOR SECOND
4	MAJOR THIRD
5	PERFECT FOURTH
6	PERFECT FIFTH
7	MAJOR SIXTH
8	ONE OCTAVE
9	TWO OCTAVES
10	THREE OCTAVES

9. To select the pitch shift direction, press the MODE button. The selected pitch mode will be indicated by the LED color.
10. The footswitch can be set to two different modes:
- **Latch:** Each press and release of the footswitch toggles between effect and bypass.
  - **Momentary:** The effect is active when the footswitch is held down and bypassed when the footswitch is released.

Welcome to the Electro-Harmonix Pico Pitch Fork, a compact, polyphonic pitch-shifter/harmony pedal. The Pitch Fork transposes the pitch of your instrument over a range of up to +/- 3 octaves. Three pitch-shifting modes allow the pitch to be transposed up, down or both simultaneously. The footswitch can operate with two different modes: Latching and Momentary. Momentary allows rapid toggling between effects and bypass for quick blasts of pitch bending. The SWEEP knob allows you to dial in the pitch sweep speed when switching between bypass and effect, while the BLEND knob allows for the perfect mix of your dry and transposed signals.

## Operating Instructions



Insert the output plug from the supplied 9VDC AC adapter into the power jack at the top of the Pico Pitch Fork. The unit must be powered to pass the signal, even in bypass. The pedal features buffered analog bypass or digital bypass depending on the settings. Connect an instrument cable from your instrument to the Input jack. Connect an instrument cable between the Output jack and a suitable amplifier. Click the footswitch to engage the Pico Pitch Fork 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** Controls the output volume.
2. **BLEND** Adjusts the output mix from 100% dry to 100% wet.

3. **SWEEP** Controls pitch bend sweep time when toggling between bypass and effect and back. The higher the setting, the longer the sweep time which maxes out at 4 seconds. Set SWEEP to minimum to bypass pitch sweep.
4. **SHIFT** Controls the pitch shift interval relative to the input signal. Whether the pitch is shifted up or down depends on the state of the MODE LED. The intervals are incremented as you move the knob from minimum to maximum. The LED flashes briefly each time a new interval is selected. The intervals are:



1. DETUNE
  2. MINOR SECOND
  3. MAJOR SECOND
  4. MAJOR THIRD
  5. PERFECT FOURTH
  6. PERFECT FIFTH
  7. MAJOR SIXTH
  8. ONE OCTAVE
  9. TWO OCTAVES
  10. THREE OCTAVES
5. **MODE Button** Press this button to choose your pitch shift direction:
    - **Red** – PITCH UP
    - **Green** – PITCH DOWN
    - **Orange** – DUAL MODE

**DUAL Mode** In DUAL mode the Pitch Fork synthesizes two different intervals simultaneously. The intervals are incremented as you move the SHIFT knob from minimum to maximum as follows:

    1. DETUNE
    2. DEEP DETUNE
    3. MAJOR SECOND UP + MAJOR SIXTH UP
    4. MAJOR THIRD UP + PERFECT FIFTH UP
    5. PERFECT FOURTH UP + PERFECT FIFTH DOWN
    6. PERFECT FIFTH UP + ONE OCTAVE DOWN
    7. MAJOR SIXTH UP + PERFECT FIFTH DOWN
    8. ONE OCTAVE UP + ONE OCTAVE DOWN
    9. TWO OCTAVES UP + ONE OCTAVE DOWN
    10. THREE OCTAVES UP + ONE OCTAVE DOWN
  6. **Footswitch and Status LED** Footswitch engages or bypasses the effect. The LED color indicates the selected pitch mode. In bypass mode, the LED is off.

7. **Input Jack** Impedance: 2.2MΩ, Max In: +1.5 dBu
8. **Output Jack** Impedance: 680Ω, Max Out: +2.1 dBu
9. **Power Jack** Current draw: 100mA at 9.0VDC

## Latch & Momentary Footswitch Selection

The footswitch toggles between effect and bypass with two distinct methods of operation: Latch and Momentary. In Latch, each press and release of the footswitch toggles between effect and bypass. In Momentary, the effect is active when the footswitch is held down and bypassed when the footswitch is released.

Latch is selected by default from the factory. To change to Momentary, do the following:

1. Press and hold the MODE button
2. After two seconds, the LED rapidly cycles through its three colors.
3. Release the button; Momentary mode is now active.
4. Repeat this same procedure to change back to Latch mode.

The footswitch setting is remembered through power-cycles so you can set it and forget it.

## Bypass Modes & Selection

The Pitch Fork features three distinct bypass topologies: Digital Bypass (Green) This is the default bypass type. In this scenario, your signal is fully digital even in bypass. This bypass type allows for the smoothest transitions between bypass and effect mode, which is most evident when using pitch sweeps. Analog Bypass (Orange) The bypass signal is analog and buffered. Analog bypass gives you the purest, least-colored sound in bypass mode. Hybrid Bypass (Red) In this bypass type, when you switch from effect to bypass, your bypass signal is initially digital, but the pedal will seamlessly switch to analog bypass when there's a brief gap in your playing. Hybrid Bypass allows for a smoother transition from effect to bypass when using pitch sweeps while allowing your bypass signal to be analog the vast majority of the time.

Digital bypass is selected by default from the factory. To change the bypass topology, do the following:

1. Power down the Pico Pitch Fork.
2. Press and hold the footswitch.
3. While holding down the footswitch, apply power to the unit.
4. Continue to hold down the footswitch. After about 2 seconds, the LED begins blinking rapidly.
5. Release the footswitch. The color of the blinking LED represents the current bypass setting. Green is digital, orange is Analog, and red is Hybrid.
6. To change the bypass setting, press and release the MODE button. The LED color changes with each press. When the LED color matches your desired bypass mode, press and release the footswitch once.

The bypass mode setting is remembered through power cycles so you can set it and forget it.

## Documents / Resources

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