

<<< Expression Jack >>>

This is an expression pedal control jack for the pitch. The Pitch control is defeated when an expression pedal is inserted. We recommend the Moog EP-2 or EP-3 for use with the Rainbow Machine and cannot guarantee that any others will work.

<<< Flexi-Switching >>>

This device features Flexi-Switch™ Technology! This relay-based, true bypass switching style allows you to simultaneously use momentary and latching-style switching.

- For standard latching operation, tap the footswitch once to activate the effect and then tap again to bypass.
- For momentary operation, hold the footswitch down for as long as you'd like to use the effect. Once you release the switch, the effect will be bypassed.

Since the switching is relay-based, it requires power to pass signal.

<<< Power Requirements >>>

- Current Draw: 68mA
- This device takes a standard 9 volt DC power supply with a 2.1mm negative center barrel. We always recommend pedal-specific, transformer-isolated wall-wart power supplies or multiple isolated-output supplies. Pedals will make extra noise if there is ripple or unclean power. Switching-type power supplies, daisy chains and non-pedal specific power supplies do not filter dirty power as well and let through unwanted noise. **DO NOT RUN AT HIGHER VOLTAGES!**

<<< Tech Specs >>>

- Input Impedance: 1M Ohm
- Output Impedance: <1K Ohm

<<< Warranty >>>

This device has a limited lifetime warranty. If it breaks, we will fix it. Should you encounter any issues, please email info@earthquakerdevices.com.



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Rainbow Machine™



OPERATION MANUAL

Stop me if you've heard this before: Welcome to the Rainbow Machine, in all its synthetic glory! This one is for experimenters, adventurers, and noisemakers. Totally not for purists and/or tone hounds. There are no "natural sounds" that come from this box. It takes modern DSP and uses it as a tool of future past to create real-time pitch shifting using digital oscillators.

Stop? Okay, fine, but what if I told you the Rainbow Machine has been completely re-imagined from the pixie dust-covered ground up to be more versatile, twice as loud as the original, with an extended delay time, deeper chorus tones, silent flexiswitch footswitches on both the **Activate (1)** and **Magic (2)** functions, and most of all, has more Magic?

The Rainbow Machine is built around a DSP pitch warping engine that's designed to be slightly imperfect; colored with digital remnants of the cosmic dust we've picked up across the multiverse. That is to say it's a cold digital beast made to pretend it has feelings.

The **Pitch (3)** control adjusts the frequency of the polyphonic pitch-warped harmony from a fourth below your input, to a third above, and every atonal pitch in-between. Noon is the unison position. Pitch may also be controlled via expression pedal. Use the **Primary (4)** function control to adjust the volume of the polyphonic harmony.

[**Pro Tip:** With the Pitch control set to noon, the Rainbow Machine acts as a chorus. Use the Primary control to adjust the wet signal volume and select the delay time with the Tracking control. The tracking improves as this control is increased, so turn it up for tighter tracking with a shorter delay time or turn it down for longer delays and more ambience.]

The **Tracking (5)** control adjusts the lag time between the wet and dry signals. **Tone (6)** rolls off some treble for a darker, "vintage" sound. Clockwise Tone settings are bright, counterclockwise is dark.

The **Secondary (7)** control adds an octave of the Primary harmony. When the Pitch control is above noon, Secondary adds an octave above the harmony. When the Pitch control is below noon, the Secondary control will add one octave below the harmony. With the Pitch set to noon, the Secondary control adds an additional chorus voice for modulated, triple-tracked tones. Use this control to blend in faux-shimmer sounds or a low-frequency rumble. It's up to you. From there, it's only a matter of how weird you wanna get.

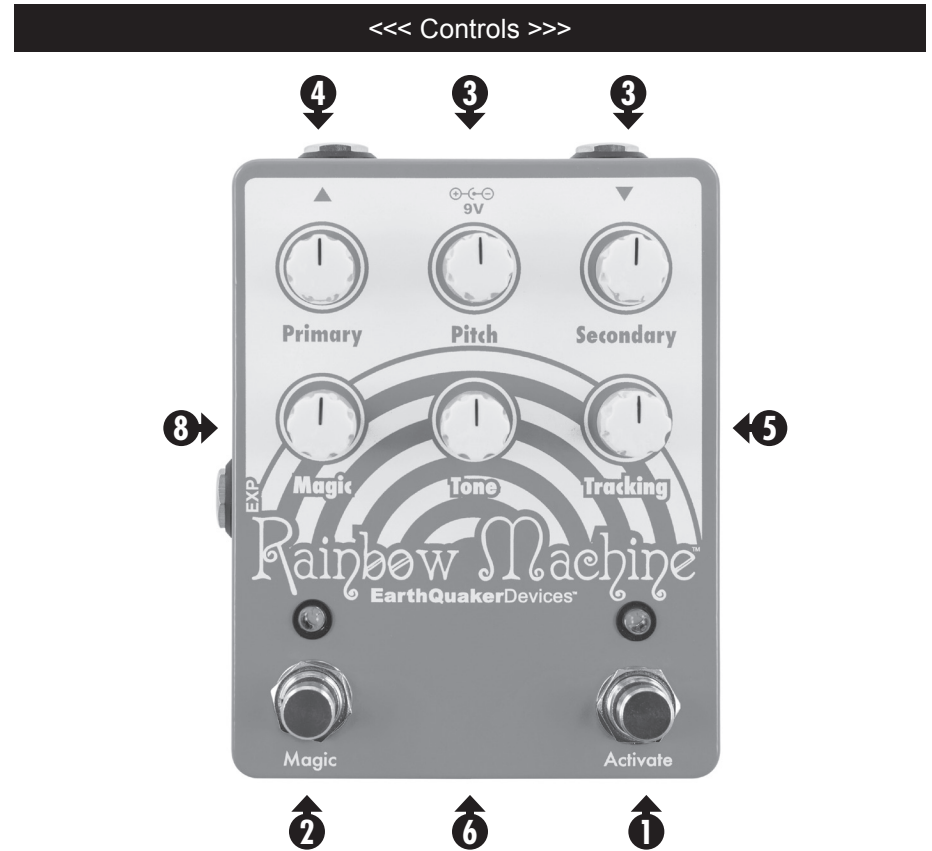
And you can choose how weird you get with the **Magic (8)** control. This is a regeneration control that creates aliasing (among other things) by feeding the Primary and Secondary signals back on themselves and each other, and a bunch of other stuff no one understands.

With the Magic engaged and the control set low, you can squeeze a few extra repeats out of whatever setting you happen to be using. As you increase the Magic control, you'll start noticing increased ambience, resonant, edge-of-oscillation pitch-shifting delays, chorus, metallic digi-flanging, ascending (or descending) pixie trails, controllable self-oscillation, squalls of synthetic noise, whale song, and finally, distortion. It'll take you way beyond and open up your third eye, trust us. In conjunction with the Tracking control, the Magic creates wild pitch take offs and descends, chaos chorusing, shrieks, groans, gurgles, wizard-blessed wizardry, signal transformation, imminent destruction, and other general mayhem.

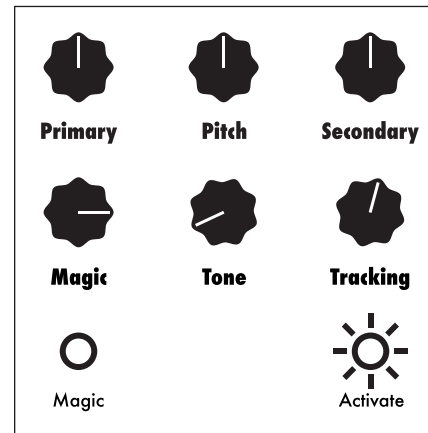
Maybe you only wanna get weird for a second? Okay, with the Rainbow Machine engaged, hold down the Magic footswitch, get weird, and then let go to return to your boring, old Magic-less guitar tone. Or, press the switch like normal, and the Magic remains engaged until you press the switch again. Ditto for the Activate switch. Press and hold to use the Rainbow Machine as a momentary effect, then let go to bypass; or feel free to press the switch like normal and use the Rainbow Machine like you would any other effects pedal.

[**Pro Tip:** The pitch warping behavior is entirely dependent upon the Pitch knob's position relative to noon. Set above noon, echoes, pixie trails, and other effects will ascend in pitch as they sustain. With the Pitch control below noon, any lingering effects will descend in pitch. This becomes extremely important when using the Magic function.]

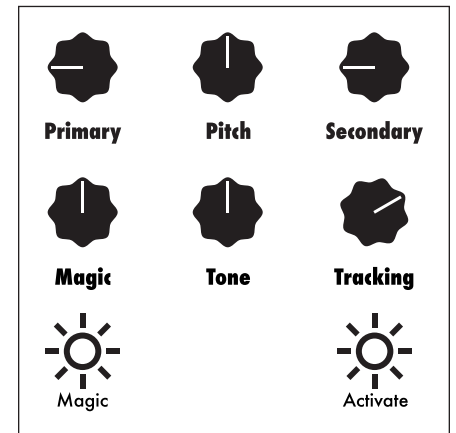
Each and every Rainbow Machine is harvested by hand in the (pixie) dusty Rainbonium mines of sunshiny Akron, Ohio, USA.



<<< Suggested Settings >>>



Master Tape Chorus (with Momentary Magic Falling Stars)



Phantasms