

Earthquaker Devices – Afterneath

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EarthQuaker Devices Afterneath Eurorack "Cheat Sheet"

OVERVIEW

- **Type:** Reverberation Effect (Multi-delays → reverb-like echoes)
 - **Audio Path:** Analog dry, digital wet
 - **Width:** 16hp | **Depth:** 31.75 mm | **+12V:** 95mA, -12V/5V: 0mA
 - **Skiff-friendly**
 - **Input Level:** Instrument to modular (set by Input knob)
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CONTROLS SUMMARY

Top Row (Left → Right):

- **Input (knob):** Adjusts gain for audio input (fully CW = instrument; fully CCW = modular)
- **Dampen (knob):** Wet signal tone (CW = darker, CCW = brighter)
- **Reflect (knob):** Feedback/regeneration (turn up for longer, self-oscillates at extremes; also an attenuator for Reflect Return)
- **Mix (knob):** Wet/dry mix (not fully wet unless Dry Kill engaged)
- **Dry Kill (toggle):** Kills dry signal (output = wet only)

Middle Row:

- **Drag (knob):** Space/spacing for delay lines = “warp speed” effect (CW = shorter, CCW = longer delays; pitch shift when changed live)
 - **Mode (knob):** Selects 1 of 9 Drag Modes (see below)
 - **Diffuse (knob):** Smears/smooths repeats (CW = more diffuse & reverb-like, CCW = sharper)
 - **Length (knob):** Controls reverb decay
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JACKS

Type	Function	Notes/Voltage Range
Input	Main audio input	Instrument to modular, adjustable via Input knob
Reflect Send	Feedback loop send, for patching external FX etc.	Signal always present, does not interrupt internal feedback
Reflect Return	Return for feedback loop; disables internal loop when patched	Doubles as 2nd audio input if feedback not needed; Reflect knob attenuates
Output	Main audio output	

CV INPUTS (*All with Inverting Attenuators*)

- Each parameter with CV has a dedicated inverting attenuator:
 - **Unity gain:** attenuator full CW
 - **Inverted:** attenuator full CCW
 - **Fully attenuated (off):** at 12 o’clock

Jack	Modulates	Voltage Range
Drag CV	Drag spacing	Responds only to +1.6V to +4.1V (Caution: Bipolar signals need offset)
Mode CV	Mode selection	Not specified (suggest ± 5 V standard; best results with 0-5V unipolar)
Diffuse CV	Diffuse smearing	Not specified (± 5 V typical, see above)
Length CV	Reverb decay length	Not specified (± 5 V typical, see above)

Note:

- Associated knobs act as offsets for incoming CV.
 - When self-oscillating, Drag CV supports 1V/oct tracking (see below).
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MODES (affect Drag CV/knob behavior)

1. **Unquantized:** Smooth, unquantized over full range
2. **Unquantized w/Slew:** Same as above, but with lag (varispeed tape effect)
3. **Unquantized 1V/oct:** Smooth, scaled to 1V/oct (melodic modulation; self-oscillation VCO)
4. **Chromatic Scale:** 1V/oct CV quantized to chromatic scale
5. **Major Scale:** 1V/oct CV quantized to major scale
6. **Minor Scale:** 1V/oct CV quantized to minor scale
7. **Pentatonic Scale:** 1V/oct CV quantized to pentatonic
8. **Oct & Fifths:** 1V/oct CV – only octaves and fifths
9. **Octaves:** 1V/oct CV – only octaves

Use Mode knob or Mode CV to select. Mode LED displays current selection.

ADVANCED USAGE

- **Self-Oscillation:**

- With Reflect/Length >12:00, module can self-oscillate (“regenerated reverb” → turns into VCO)
- In Modes 3–9, Drag CV input follows 1V/oct (for keyboard/sequencer tracking)
- **Drag CV Input:** Only positively responds to 1.6-4.1V unipolar
 - To scale properly:

1. Drag CV attenuator full CW, Drag knob at noon
2. Modes 3-9
3. Length/Reflect > 12:00
4. Play octave CV source, find upper Drag knob limit, set just beyond
5. Lower Length/Reflect to stop oscillation if needed

- **Pseudostereo:**

- Output main & Reflect Send to separate channels for spacious/multichannel effects.
 - Patch Reflect Send to mults → other outputs/processing → Reflect Return.
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TIPS

- Input knob: Turn up for guitar/synth, down for modular signals.
 - Use Inverting Attenuators to fine-tune CV ranges—start with knob noon, attenuator fully CW for external CV.
 - Diffuse: Higher for ambient, lower for clarity.
 - Self-oscillation = creative oscillator, can track pitch (not perfectly tuned).
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QUICK REFERENCE: ALL CONTROLS & JACKS

Knob/Button/Toggle	Function
Input	Sets input gain
Dampen	Sets wet signal brightness
Reflect	Sets feedback amount
Mix	Wet/dry blend
Dry Kill (toggle)	Removes dry audio (true "wet-only" out)
Drag	Spacing/"warp" between reverb delays
Mode	Select Drag mode (9 choices)
Diffuse	Amount of smearing/ambience
Length	Reverb decay time

Jack	Function/Modulates	Voltage Range
Input	Audio In	Instrument/modular level
Reflect Send	Feedback signal out	Audio
Reflect Return	Feedback signal in (bypass internal loop)	Audio
Output	Main Audio Out	Audio
Drag CV	Modulates Drag	+1.6 to +4.1V (offset needed)
Mode CV	Modulates Mode selection	(0-5V recommended)

Jack	Function/Modulates	Voltage Range
Diffuse CV	Modulates Diffuse	(0-5V recommended)
Length CV	Modulates Length	(0-5V recommended)

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