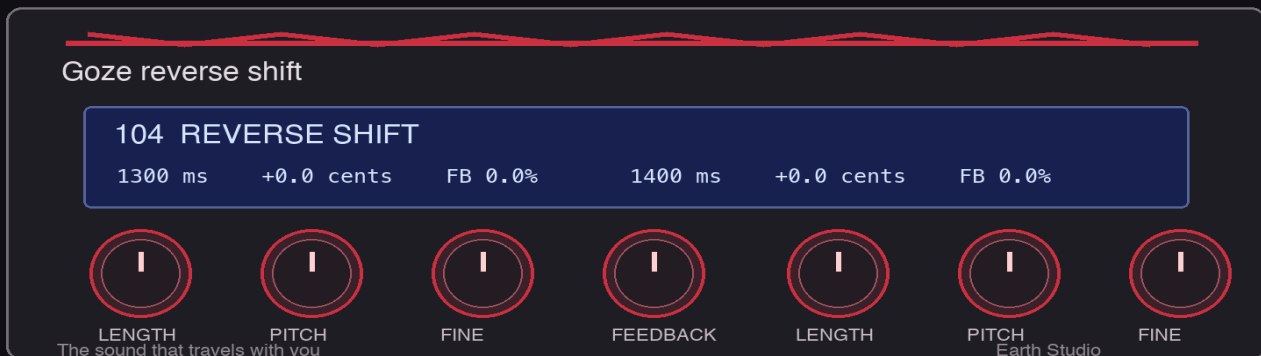




GOZE REVERSE SHIFT

A measured recreation of the Eventide H3000 D/SX Program 104

The sound that travels with you

The missing program

In the studio, I use an Eventide H3000 D/SX. It contains a program that I could not find again in Eventide's H3000 Factory plugin: Program 104, Reverse Shift.

Reverse Shift combines pitch shifting, delay and reverse playback. The unit records a short audio segment, then plays that segment backwards while the next segment is being captured. The result is a moving, spacious effect that sits somewhere between a reverse delay, a granular texture and a very unusual reverb.

I wanted this sound in my plug-in rig when I am away from the studio, so GOZE REVERSE SHIFT was built from measurements of the original hardware and from the stereo behaviour of my own setup.



Original Eventide H3000 D/SX front panel.

How the recreation works

The plug-in accepts a stereo input and keeps the two reverse readers independent. Both input channels feed the stereo reverse structure, which is part of the character of the effect. The left and right lengths are intentionally different, creating the slow movement and width heard in the hardware measurement.

The default preset follows the measured studio setting:

Parameter	Left	Right
Length	1300 ms	1400 ms
Pitch	0 cents	0 cents
Fine	-4 cents*	+4 cents*
Feedback	0 %	0 %
Mix	100 % wet	100 % wet

* The default plug-in preset opens at 0 cents on both Fine controls; the -4 / +4 values are the measured Earth Studio listening setup.

Technical specifications

Format	AU and VST3 for macOS Apple Silicon
Signal path	Stereo in / stereo out
Reverse engines	Two independent overlapping reverse readers
Length	1 to 1400 ms per side; measured clock periods approximately 1297 ms and 1397 ms
Coarse Pitch	-2400 to +1200 cents, in 100-cent steps
Fine	-100 to +100 cents, in 1-cent steps
Feedback	0 to 95 % per side
Mix	0 to 100 %; 100 % gives reverse only
Input handling	The stereo input feeds both reverse readers, as measured on the H3000 setup
Interface	Dark H3000-inspired panel, blue display, red controls and front-panel ribbon

Use a stereo track or stereo bus. Start with Mix at 100 %, Length 1300/1400 ms, Pitch at 0 and Feedback at 0 %. The numeric fields under the knobs are editable for exact values.

GOZE REVERSE SHIFT is a measured recreation, not a claim of identical internal Eventide code. Its purpose is to keep the musical behaviour and the particular stereo reverse space of the hardware available outside the studio.