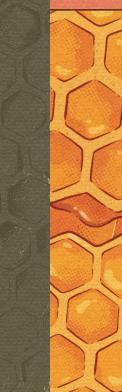


USER'S MANUAL





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We've always been drawn to the way analog delay feels.

The way it darkens just right.

The way it warbles. The way it makes time musical.

This is our love letter to that sound.

We built the BEE BEE DEE as Beetronics' first-ever delay, and we knew it had to be special.

Analog where it matters. Digital where it inspires. Every sound a nod to the past, every function a step into the future.

Whether you're chasing slapbacks or spiraling into pitch-shifted chaos, the BEE BEE DEE is designed to be simple to use, but deep enough to keep you exploring.

The BEE BEE DEE is an analog delay designed to do everything you everything you didn't know an analog delay could do.

At its core are two bucket brigade chips delivering warm, rich, musical But behind that analog path is a engine that lets you bend time, shift pitch, and move your sound in ways no vintage circuit ever could.

It gives you movement, texture, and life. It gives you control, deep, expressive, and immediate, without ever pulling you out of the music.



INSIDE ARE 3 DELAY MODES:



CLASSIC ~

smooth sine modulation and timeless tone.





Irregular modulation, unstable filters, and shifting character.





Rhythmic harmonies. melodic loops, and time-warped ideas.

You can push it into feedback.Jump it up an octave. Burst modulation like punctuation. EVERYTHING MOVES WHEN YOU DO.

TONE

Tone filter: LP (low-pass), HP (high-pass), "FLAT" in center

DC POWER JACK

+9VDC center-negative - 250mA - 2.1MM

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E SINI

ACTIVITY
MOD SPEED or
PITCH RATE (tempo-synced)

OUTPUT

PERFORMANCE TOGGLE

Choose performance footswitch function: **TAP**, **2x** (octave jump/doubles delay time), or **MOD** (modulation on/off)

PERFORMANCE FOOTSWITCH
TAP or HOLD for: TAP TEMPO, 2x,
or MOD functions.

Input Impedance: 1M
Output Impedance: 510ohms
Power Consumption: 200 mA
Buffered Bypass

TIME

Sets delay length

MIX

Blend of **DRY** and **WET** signals

7/ 1/1

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DELAY

REPEATS

Number of echoes

DEPTH

Modulation intensity / selects pitch

INPUT

THE PORT OF

MODE TOGGLE

Select Classic, Lo-Fi, or Pitch Modes

BYPASS FOOTSWITCH

TAP: Engage effect HOLD: momentary Feedback boost

Circuit and Concept Design by Filipe Alberti and Filipe Pampuri
Faceplate and Illustrations by Kin Noise
Manual Design by Leandro Benyk

HIDD VOUR KIDDE

EVERYTHING THAT SHAPES, SHIFTS, AND BRINGS YOUR DELAY TO LIFE



TIME

Sets the **length** of your delay from tight slapbacks to long, spacious echoes.

- 600ms of clean analog repeats sits around 1 oclock on the knob. Beyond that, you start stretching the BBD circuit adding noise, character and lo-fi charm.
- Use tap tempo to go even further, up to 2 seconds.

REPEATS

Controls how many echoes you hear from a single repeat to infinite self-oscillation.

The feedback circuit is carefully tuned to stay musical and stable, letting you freeze phrases or build evolving loops without things spiraling out of control.



MIX

Blends your dry and delayed signals.

Go from subtle ambiance to fully wet perfect for layered sound design or ambient swells.



TONE (HP/LP TONE FILTER)

Shapes the EQ of your repeats using a simple, powerful filter.

- The center position is flat.
- Turn left for LP (Low-Pass) darker, warmer echoes.
- Turn right for HP (High-Pass) brighter, thinner repeats with a crisp edge.
- Great for defining the mood of your delay or for taming noise when stretching delay time beyond clean ranges.

DEPTH

Controls the intensity of modulation.

- In Classic and Lo-Fi modes, it sets how deep the time warps.
- In **Pitch mode**, it selects your target pitch intervals.





ACTIVITY

Sets the speed of modulation or pitch shifts.

- In Classic: smooth, sine-wave motion.
- In Lo-Fi: unpredictable, irregular movement.
- In Pitch: tempo-synced pitch steps with editable subdivisions.

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PERFORMANCE TOGGLE (LEFT TOGGLE)

This switch decides how the left footswitch behaves like choosing your tool for the moment.

- TAP: Set your tempo on the fly.
- 2X: Halves the delay time, pitching everything up or down an octave depending on where you are.
- MOD: Use the footswitch to turn modulation on/off or inject it momentarily like a burst of movement.

Tap to latch. **HOLD** for expressive, momentary jumps and returns.



DELAY MODE (RIGHT TOGGLE)

Switches between three voices inside the hive:

- CLASSIC: Set your tempo on the fly.
- Lo-Fi: Textured and unstable
- Pitch: Harmonically shifting and expressive



MELODIC, RHYTHMIC, OTHERWORLDLY

Pitch Mode turns delay into a musical instrument.

Your echoes shift in pitch, creating harmonies, rhythmic patterns, and unexpected textures. It's driven by a softened square-wave modulation, gently gliding delay time up and down in rhythmic steps.

The movement stays locked to tempo, making it feel tight, reactive, and alive.

Because the pitch shift affects the entire feedback path, your phrases bend and loop in surprising ways - especially at longer delay times, where things get deep and strange.

USE THE **TONE** CONTROL TO SHAPE YOUR SOUND!



LEFT (LP)
To smooth out artifacts



RIGHT (HP)
To embrace the noise and grit.

PITCH MODE IS WHERE SOUND BECOMES PLAY.

What you send in comes back transformed sometimes echoing, sometimes answering.





弘



UNSTABLE, TEXTURED, ALIVE.

Lo-Fi Mode takes the **BBD** sound and pushes it into stranger territory. The repeats are darker, grittier, and more unpredictable, a little noisier, a little moodier, and full of life.

The modulation here is irregular, constantly shifting both delay time and tone. What makes it unique is how it also modulates the **TONE** filter, making your repeats get brighter and darker as they echo and drift

With the right settings, it can make the delay seem to fade in and out, as if it's breathing. Turn right for **HP** (**High-Pass**), brighter, thinner repeats with a crisp edge. Great for defining the mood of your delay or for taming noise when stretching delay time beyond clean ranges.

MODULATION CONTROLS:



DEPTH sets the intensity



ACTIVITY controls how frequently it moves

You can turn modulation off by rolling down **DEPTH**, or flip the Performance Toggle (left toggle) to **MOD** and use the footswitch to toggle it on and off, latched or momentary.

LO-FI MODE IS WHERE THINGS GET WEIRD AND SOMETIMES, THATS WHERE THE MAGIC IS.

MELODIC. RHYTHMIC. OTHERWORLDLY

Pitch Mode turns delay into a musical instrument.

Your echoes shift in pitch, creating harmonies, rhythmic patterns, and unexpected textures. It's driven by a softened square-wave modulation, gently gliding delay time up and down in rhythmic steps.

The movement stays locked to tempo, making it feel tight, reactive, and alive.

Because the pitch shift affects the entire feedback path, your phrases bend and loop in surprising ways - especially at longer delay times, where things get deep and strange.

USE THE **TONE** CONTROL TO SHAPE YOUR SOUND!



LEFT (LP)To smooth out **artifacts**



RIGHT (HP)
To embrace the noise and grit.

PITCH MODE IS WHERE SOUND BECOMES PLAY.

What you send in **comes back** transformed sometimes **echoing**, sometimes **answering**.







CONTROL THE MOVEMENT. SHAPE THE MELODY

PITCH MODE lets you decide how far, how fast, and when your repeats shift. Its expressive, synced, and full of surprises.



ACTIVITY

Sets the tempo-synced rate of the pitch modulation.

Center = 1:1 | Left = slower (multipliers) | Right = faster (dividers)

Always locked to the delay time for tight, rhythmic results. The modulation is always pulsing.

YOU CAN PLAY ALONG WITH ITS RHYTHM. OR IF SYNCING TO A TRACK OR CLICK TAP THE LEFT FOOTSWITCH ONCE (IN TAP MODE, SET BY THE PERFORMANCE TOGGLE) TO RE-SYNC THE CYCLE.

DEPTH

Selects the pitch interval:

Left of center:

Center: | Right of center:

Rand, 2nd, 4th, 5th | Octave | 5th+Oct, 4th+Oct, 5th+9th, 2 Oct (Oct + 2 Oct)

Octave is symmetrical, the shift sounds the same in either direction. Other intervals invert when the pitch LFO moves up or down for example, a 4th up becomes a 5th down.



DOWNBEAT OR UPBEAT. IN THE GLOBAL SETTINGS.

TAKE YOUR DELAY PERFORMANCE TO NEW EXPRESSIVE HEIGHTS:

MOD TOGGLE + PERFORMANCE SWITCH

Control PITCH ON/OFF - momentary or latched.

2X MODE

Double or halve the delay time, creating a full octave jump.

HOLD BOTH FOOTSWITCHES

Combine the feedback boost (from BYPASS) with a 2X pitch shift for wild, expressive feedback lavers.





PITCH MODE TURNS YOUR DELAY INTO A MUSICAL COLLABORATOR. YOU PLAY, IT PLAYS BACK. REIMAGINED. WHAT YOU SEND IN COMES BACK TRANSFORMED SOMETIMES ECHOING. SOMETIMES ANSWERING.

PERFORMANCE TRICKS

<u>PERFORMANCE TRICKS</u>

EVERYTHING MOVES WHEN YOU DO

The BEE BEE DEE gives you more than delay, it gives you control. Both footswitches respond to taps and holds, giving you real-time performance power. Use them solo or combine them to shape your sound on the fly.

BYPASS SWITCH



- O TAP: Turns the pedal on or off
- O HOLD (WHILE OFF): momentarily engages the delay, great for accents and dub-style stabs.

O HOLD (WHILE ON): boosts feedback, not infinite, but lifts intensity above the knob's setting.

PERFORMANCE SWITCH

Selected via the left toggle, this switch puts the creative tools at your feet.

TAP

Set your tempo or shift it mid-flight.

- O TAP to set delay time
- HOLD + TURN ACTIVITY to select subdivision

Center = 1:1 | Left = slower (multipliers) | Right = faster (dividers)



2X

Jump an octave in a heartbeat and land wherever the echo takes you.

- O TAP or HOLD to double delay speed
- O Also shifts the **feedback** line up or down one octave
- O Holding returns to normal when released ideal for quick jumps or pitch tricks

MOD

Drop into modulation. Or pull out clean. Your call.

- O TAP or HOLD to toggle modulation on/off momentary or latches
- O Use it like a mod preset: keep your base delay clean, then engage your dialed-in modulation when needed
- O Especially dramatic in PITCH MODE, where mod ON/OFF flips the entire sonic mood



COMBOS



- Hold BYPASS for feedback boost
- Trigger 2X or MOD at the same time using the Performance Switch
- Combine both for spiraling repeats, rising octaves, or dynamic

THIS SYSTEM WORKS IN EVERY MODE, PLAY A PHRASE, FLIP IT, BOOST IT, MODULATE IT. ALL WITH YOUR FEET, DELAY BECOMES PERFORMANCE.



MODULATION START POINT

BBD 2 BIAS

MODE TOGGLE

RIGHT FOOTSWITCH

HIDDEN SWITCHES FOR THOSE WHO LIKE TO DIG A LITTLE DEEPER.

HOW TO ENTER:

- 1 Unplug the power supply. 2 Hold the BYPASS button and reconnect the power supply 3 LEDs light up, you are now in Global Settings mode
- · To save and exit, hold BYPASS for 2 seconds

TRAILS

This setting determines whether your delay repeats continue to echo after the pedal is bypassed, or if they stop immediately. Trails are now controlled by the **LEFT TOGGLE** switch:

- LEFT position = Trails ON: delay trails will naturally fade out
 RIGHT position = Trails OFF: delay is instantly cut when bypassed

The LED under the PERFORMANCE SWITCH confirms your selection:

- Orange means trails are ON
- White means trails are OFF

BBD BIAS

Under the hood, your delay is powered by two bucket-brigade chips, and this setting adjusts their internal balance. • ACTIVITY sets BIAS 1 • DEPTH sets BIAS 2

We dial these in at the factory. If you're the kind of player who likes to live dangerously, you can experiment to find your own "sweet spot." If you want to go back, just **HOLD** the **PERFORMANCE SWITCH** while in Global mode to restore the defaults.

MODULATION START POINT

You can customize the modulation's starting point for each mode, allowing you to control exactly how the movement begins. This setting defines whether the modulation initiates from the bottom or the top of its wave, essentially controlling the modulation's initial direction. This feature is especially handy for syncing modulation with your musical ideas, particularly in **Pitch Mode**.

- Starting from the BOTTOM: The modulation rises smoothly from where your sound already is. It's gentle and gradual.
 Starting from the TOP: The modulation jumps straight to its peak as soon as it's engaged. This creates a more dramatic effect.

To adjust, use the **MODE** toggle to select the delay mode you're editing, then turn the **TIME** knob: fully **CCW** (LED ON) starts from the bottom, fully **CW** (LED OFF) starts from the top, and anywhere in between gives you fine control for timing.

TRAILS

Select if repeats fade naturally after bypass.

FOOTSWITCH [PERFORMANCE]

· While in Global Mode. hold to restore factory settings, including bias calibration.

BBD I BIAS



TRAILS



LEFT FOOTSWITCH (PERFORMANCE)

MODULATION START POINT

Choose whether modulation begins from the bottom (downbeat) or top (upbeat) of its wave.

MODE TOGGLE

Selects which delay mode's modulation start point you're adjusting

FOOTSWITCH [BYPASS]

- · Hold while plugging in power to enter Global Settings.
- · Hold again to save your changes and reboot the pedal.