Diamond
MEMORY LANE
OPERATING INSTRUCTIONS

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By blending analog companding, anti-aliasing|reconstruction filters with a bucket brigade style delay line, we've captured the ethereal essence of the original big-box Memory Lane using Diamond's innovative digital Bucket Brigade Delay technology (dBBD). All of this in a smaller footprint, with over double the delay time, extended frequency response, higher SNR, and at a fraction of the current draw of the original. The Memory Lane now includes 3 different delay lines offering a variety of modern and vintage sounds. All of our research and development has culminated in a unique sonic signature that can only be described as unmistakably Memory Lane.

ADVANCED FEATURES

MODE CHANGE INDICATION

LEDs will flash twice after the LED power-up sequence to indicate a mode change.

AUTO DIV

When a tapped tempo is outside the delay time range of your current mode, the tempo will be automatically doubled or halved. The Bypass LED will cycle through the 3 colours as an indication.

MOMENTARY | LATCHING MODE

The MODULATION and DOUBLER can operate in either:

Momentary | Only while its footswitch is held down
Latching | Toggled on and off when its footswitch is held down

Hold down the ON|MOD or TAP|DBL footswitch during the entire LED power-up sequence to change its respective operation.

MODULATION - MODE LED - Momentary || Latch
DOUBLER - TAP Div LED - Momentary || Latch

TRAILS MODE

In trails mode, the delayed signal will trail off according to the FEEDBACK knob when the effect is bypassed. In non-trails mode, the delay will immediately kill the delayed signal when the effect is bypassed.

Hold the TAP|MODE toggle switch up during the entire LED power-up sequence to turn TRAILS mode on or off.

TAP Div. then MODE LED - Trails || Kill Delay

GEEZER MODE

Geezer mode disables the secondary footswitch functions for those seeking maximum simplicity. Hold the TAP|MODE toggle switch down during the entire LED power-up sequence to turn GEEZER mode on or off.

TAP Div and MODE LED - Geezer || Normal

MEMORY LANE CONTROLS

OUTPUT JACK
Send audio to your amplifier or next pedal from here.

POWER INPUT
Connect your 2.1mm, negative tip, 9V, DC, power source here.
Current Draw: 45 mA

INPUT JACK
Send audio from your instrument to here.

MIX KNOB
Sets the level of the delay signal.

FEEDBACK KNOB
Sets the amount of delayed signal fed back into the delay line. As such, this knob sets the number of times the delay line will repeat the output.

DELAY KNOB
Sets the delay time manually within the range of the current mode.
Note: the delay time can also be set using the TAP|DBL footswitch.

MODULATION KNOB
Sets the depth of the sampling rate modulation, creating a chorusing effect in the delayed signal. This knob will only have an effect when MOD is engaged.

TAP|MODE TOGGLE SWITCH
Click ∧ to cycle through tap subdivisions.
Click ∨ to cycle through delay modes.

TAP DIV. LED
Quarter Note | ♩ | 1:1
Eighth Note | ♪ | 1:2
Half Note | 𝅗𝅥 | 2:1
Dotted Eighth Triplet | ♩. | 1:3
(Vintage Mode)
DOUBLER ||| Cycle Colours

MODE LED
Modern | Muted Tempo Change
| Static Sampling
| 50 - 1200 ms
Warm | Darkened Repeats
| Variable Sampling
| 150 - 1200 ms
Vintage | Tap Div. is Doubled
| Variable Sampling
| 65 - 550 ms
MOD | Flashing
AutoDiv ||| Cycle Colours

ON | MOD FOOTSWITCH
Turns the pedal on and off by tapping.
Engages the MODULATION when held down.

TAP | DBL FOOTSWITCH
Sets the delay time by averaging consecutive taps. The AutoDiv feature may automatically double or half the tapped tempo to fit the delay time range of your current mode.
Engages DOUBLER mode when held down to double the tempo of the delay.

The Diamond digital Bucket Brigade Delay

At the heart of the original, analog Memory Lane is a BBD and Compandor. This new, compact Memory Lane is designed to capture the character of the original by implementing an embedded system that operates as drop-in replacement for a BBD and surrounding it with a custom Companding and Anti-Aliasing circuit similar to that of the original.
A BBD operates by sampling the input, passing a copy in its series of capacitors bucket-to-bucket, and outputting the contents of the last capacitor, all clocked at a specific rate. This delay line operates the same but uses RAM to pass these copies and an internal clock to define the sampling rate. Our emulation has been pushed even closer with Warm mode's ability to capture the BBD's capacitive losses.
The analog circuitry aims to respond exactly as the original Memory Lane with the Compandor adding a slight compression and softness, allowing the delay to sit perfectly in the mix, the Anti-Aliasing filters creating warmth, and the analog feedback network highlighting and emphasizing these features.