Diamond

VIBRATO

INSTRUCTION MANUAL

[MAY 2024]

SIGNATURE TONE

PAGE ONE

The Diamond Vibrato started back in late 2006 with a simple yet ambitious idea: crafting an analog, true-pitch Vibrato pedal built around the revered MN3007 bucket brigade device...

It promptly became one of the world's most coveted and sought-after Vibrato pedals.

Now, nearly two decades later, we are extremely proud to re-introduce the **new Diamond Vibrato**— our testament to nearly two decades-worth of end-user feedback, a meticulous redesign for enhanced player experience, and the signature Diamond quality that made the OG Vibrato great.



FEATURE SET

HALF THE SIZE, ALL OF THE SOUND

Don't let the size cause you to under-estimate the power packed within. We've managed to stuff all of the Vibrato's analog audio path, compandor and BBD Delay circuits in a pedalboard-friendly sized enclosure.

By using dual stacked PCB's we've not only optimized on space, but also enhanced the isolation of the audio path from the power and switching circuits.

Add top jacks, soft-touch True Bypass switching, and standardized negative-center 9-18V_{DC} input with polarity & over-voltage protection for a bulletproof pedal ready for any gig.

ANALOG BBD DELAY LINE

At the heart of this pedal lies the revered MN3007 Bucket Brigade Delay chip, renowned for its ability to create the rich, organic, and warbling Vibrato & Chorus tones which made the sounds of the 70s and 80s guitar icons.

The MN3007 infuses its signature character to your guitar signal—delivering a natural, liquid-like pitch modulation with a rounded vintage texture and mojo that is missing from modern digital counterparts.

COMPANDOR MAGIC

Our Compandor Circuit adds warmth and complexity by controlling your dynamics. Acting as both a compressor and expander, it not only gives the Vibrato its signature feel and response but also reduces much of the noise inherently found in BBD technology. Borrowed from the Memory Lane Jr., the updated compandor design in the Vibrato provides increased clarity, less distortion and is pre-trimmed therefore will never have to be recalibrated.

INPUT VOLTAGE

While the original Vibrato could only be powered by an 18V_{DC} reverse polarity power supply (internally regulated to 15V_{DC}), the new Vibrato offers a much more versatile 9-18V_{DC} operating range. The voltage is internally regulated based on the power input and as a result, the pedal will sound slightly different depending on operating voltage as the clock frequency will shift.

For classic, pristine and lush Diamond Vibrato tones with added headroom, power the pedal at 18V_{DC} (like the original). Powering it at 9V_{DC} will add a bit more color and warble—much like the "High Mode" in the original big-box Vibrato. Take advantage of the added range or just dial back the depth. Better yet, grab a Cioks Power Supply and try it at 12V_{DC} or 15V_{DC}. Regardless of what you settle on, the Diamond Vibrato will sound great!

As always, we recommend using a good quality, isolated power supply.

FEATURE SET

PAGE THREE

POWER OUTPUT

Connect your 2.1mm, negative tip, 9-18V_{DC} power source here.
Current Draw: 40 mA @ 9V_{DC}

OUTPUT JACK

Send audio to your amplifier or next pedal.

INPUT JACK

Send audio from your instrument to here.

LEVEL KNOB

Sets the output level.
Note: Use this knob to match the Bypass level.

SPEED KNOB

Sets the speed of the modulation between 0.1Hz - 10Hz.

Note: In **DOUBLER** mode, this speed range is doubled.

CHORUS KNOB

Sets the amount of dry signal with the modulated wet signal.

Fully CCW:
Vibrato Effect
Fully CW:
Chorus Effect

DEPTH KNOB

Set the intensity of the modulation.

Low settings yields a subtle effect.
High settings yields a prominent pitch bend.

**Depth range is increased at 9V_{DC} operation vs. 18V_{DC}*



JAZZ SWITCH

Select the amount of high-frequency roll-off.

Center: Clean Tone
Click▲: Warmer Tone
Click▼: Warmest Tone

ON|DBL FOOTSWITCH

Turns the pedal on andoff by tapping.

Engages the **DOUBLER** when held down to double the speed of the Vibrato.

EFFECT LED

An illuminated LED indicates that the pedal is on. The colour of the LED indicates the current mode: NORMAL | DOUBLER

The **DOUBLER** can operate in either **MOMENTARY DOUBLER MODE** (*only while its footswitch is held down*) or **LATCHING DOUBLER MODE** (*toggled on and off when its footswitch is held down*).

Switching modes: Unplug the power from the pedal then hold down the **ON|DBL FOOTSWITCH**. Keeping the footswitch held down, plug back into power source. The **EFFECT LED** will flash **GREEN** to indicate **LATCHING DOUBLER MODE.** If it flashes **RED**. you are in **MOMENTARY DOUBLER MODE**. Simply repeat this process to switch modes.

TRY OUR SETTINGS

18V DC SETTINGS

Adjust **LEVEL** and **JAZZ** switces to taste.



CLASSIC VIBRATO



80s CHORUS



FAUX LESLIE



LOW & SLOW MODULATION

9V DC SETTINGS

Same settings as 18V DC. Similar to "High Mode" from the original Vibrato.
DEPTH is dialed back to match the 18V DC settings. Adjust **LEVEL** and **JAZZ** switches to taste.



CLASSIC VIBRATO



80s CHORUS



FAUX LESLIE



LOW & SLOW MODULATION

WARRANTY

All Diamond product(s) purchased through the diamondpedals.com website or an authorized Diamond retailer comes with a three (3) year warranty against failure resulting from defective parts, and/or faulty workmanship. Cosmetic flaws or issues related to wear and tear are not covered.

The warranty applies only to the original purchaser of the product and is not transferable. Warranty coverage terminates three years after the date of purchase. While a product is under warranty, the product will be repaired free of charge. The owner of the product will be responsbile for both shipping to and from Diamond Pedals HQ located in Montreal, Quebec, Canada. Warranty coverage will be automatically canceled should the product be tampered with, modified, damaged through misuse and/or abuse, repaired by an unauthorized third-party, or damaged through failure to follow our operating instructions.

USE OF AN IMPROPER POWER SUPPLY AUTOMATICALLY VOIDS THE WARRANTY.

SPECIFICATIONS

Input Impedance:	> 1 MΩ
Output Impedance:	< 10 KΩ
Switchting:	Relay True Bypass
Power Requirement:	9-18V_{DC} negative tip, 2.1mm Barrel Jack
Current Draw @ 9V:	40mA
Current Draw @ 18V:	45mA
Jazz ▲ High Roll-Off:	5 kHz w/ -3dB
Jazz ▼ High Roll-Off:	1.5 kHz w/ -3B
Dimensions:	4.8″ x 2.64″ x 1.58″
Weight:	280g

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CONNECT WITH US

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