Vibe Machine™ V-2

This User's manual features essential tips for using the V-2 pedal straight out of the box. For additional options and many more detailed features, download the Options manual (Doc. No. DM0958) from www.drybell.com.

To begin playing you don't need the User's manual at all, just plug in and enjoy!

INTRODUCTION

Thank you for purchasing the Vibe Machine V-2 pedal from **DryBell, Croatia,** and a big thanks to all of you who bought the V-1. The Vibe Machine V-2 is a top quality Uni-Vibe® type pedal developed to the highest possible standards. The analog signal path was designed with discrete transistors, just like the classic Uni-Vibe®, but made with small electronic SMD technology. Its reduced size makes it perfect for a smaller pedalboard. The Vibe Machine V-2 is one of the smallest and greatest sounding vibe pedals in the world, with all the original Uni-Vibe® options and much, much more. We have embedded many new options into the V-2, developed from our experiences with the V-1.

INTENSITY (pot) 1

Controls the depth and the character of the chorus (vibe) or vibrato sound, as well as defining the strength and dynamic of the pulsing nature of the effect. A more pronounced effect starts from around the 2 o'clock position onwards (check the heartbeat sign on the silkscreen). The contour of the intensity knob is custom designed to enable quick and easy setup of different vibe sounds.

SPEED (pot) 2

The SPEED knob adjusts the speed of the chorus's pulse (vibe) or the vibrato sound. Its size and placement also makes foot control possible. When using an expression pedal, it is possible to turn on the Leslie® ramp delay (speed up/slow down) feature. When this option is activated, every time you move the expression pedal to a new position, the oscillations gradually speed up or slow down to the new position. To activate the Leslie® ramp delay option you just need to move the speed knob from the MIN position. You can then adjust the Leslie® ramp delay by rotating the SPEED knob. For additional options for the SPEED knob, please refer to the Options manual.

VIBRATO/CHORUS (2-way switch) 3

This toggle switch selects between the classic chorus (vibe) sound and the vibrato sound, a very underused part of vibe pedals. This effect can give a great sense of movement. The toggle switch has an internal connection to the Intensity pot, so the contour of the Intensity pot is different for Chorus or Vibrato settings. We find this to be better because the V-1 needed intensity to be manually decreased when it was set to Vibrato mode.

ORIGINAL/BRIGHT/CUSTOM (3-way switch) 4

With this new 3-way toggle switch you have much better input impedance control on the fly. Original Uni-Vibe® units had relatively low input impedance and a warm tone, so for that vintage "Vibe", set the switch to the ORIGINAL position. For a full bright tone flip the switch up to the BRIGHT position. If the Vibe Machine is the first (or only pedal) in your effects chain, this setting will use the entire tonal range of your pickups. If any other pedal with a similar buffer is placed before the Vibe Machine, the ORIGINAL/BRIGHT/CUSTOM switch will have no effect and the tone will depend on that buffer. A third option is available when you set the switch to the CUSTOM position where you can then adjust the brightness (input impedance) with the CUSTOM side trimmer (6). The CUSTOM trimmer gives you the brightness range between the ORIGINAL and BRIGHT settings. This trimmer only affects the brightness when the switch is in the CUSTOM position.

VOLUME (side trimmer) 5

This trimmer adjusts the level of the output signal. The volume cannot be reduced to silent at its lowest setting and the maximum setting boosts your volume above and beyond unity gain. With a higher volume setting you can push your amp or next pedal for a dirty-vibe sound. So, find your preferred effect volume, set it and leave it. In the ORIGINAL position you may have a small bit of volume loss due to ORIGINAL having low input impedance. In bypass this trimmer has no effect. To set it, please use the small screwdriver included in the pedal's box. This trimmer is set to 1 o'clock by default.

CUSTOM (side trimmer) 6

This trimmer adjusts the input impedance when the ORIGINAL/BRIGHT/CUSTOM switch is set to the CUSTOM position. If you switch guitars on stage, sometimes you may want to flip the ORIGINAL/BRIGHT/CUSTOM switch to balance your guitar's brightness. This trimmer is set to 12 o'clock by default.

CHORUS (side trimmer) 7

This trimmer is used for setting the depth of harmonic modulation when the V-2 is in CHORUS mode so the user can adjust the swirl/watery/chewy character of the chorus sound. The deepest modulation is between 2 and 3 o'clock, and at 12 o'clock is the same as on a V-1. It has an impact on all frequencies. If you play in a band, we recommend that this trimmer is set to about 12 o'clock (like on the V-1, where it is fixed internally) because at this setting your guitar will cut through the mix better. The CHORUS trimmer also affects the low end frequencies of the chorus throb. This trimmer is set to 2 o'clock by default.

GRIT (side trimmer) 8

This new control adjusts the overall presence of the pedal's tone and it is VERY interactive with the volume of the output signal. If you set the GRIT trimmer to CW, the VOLUME trimmer should be set to CCW and vice versa for the approximate same level of output signal. Try a fuzz/dirt pedal or just an amp after the V-2 and with GRIT you can find your tonal sweet spot with whatever is next in the chain. The GRIT trimmer adjusts the behavior of the A-class output buffer circuit and it is set to 11 o'clock by default. The internal jumper featured on the V-1 pedals is replaced by this trimmer for more practical output buffer control.

TRUE BYPASS (footswitch, LED) 9, 10

Each time you press the footswitch (9) the effect is turned ON or OFF. This means that when the pedal is OFF, the internal circuits (and input/output buffer also) have no effect on the signal path. When the effect is active, the red LED (10) will always light up. This LED cannot flash; when the pedal is OFF the LED is OFF too. The Vibe Machine V-2 does not have any type of buffered bypass.

MULTICOLOR SYSTEM LED (green/red/orange) 11

The system LED (SYS) will flash green synchronously with your speed setting. The system LED is multifunctional and in different V-2 modes will flash in different colors and sequences. If you want, you can turn off this system LED when the pedal is OFF. Please refer to the Options manual for more information.

RANGE & SYMMETRY (factory-set side trimmers) 12, 13

These trimmers are used for setting a desired throb sound. They are carefully calibrated by us before shipping. If you still want to experiment, use the trimmer adjustment tool provided. You can achieve a variety of throb sounds (from symmetrical to unsymmetrical). Be sure to mark each trimmer's position with a sharpie or a black marker before you start (!) so that you will be able to revert to your pedal's original settings, because these trimmers are very sensitive to small adjustments. For further details download the Symmetry and Range manual (Doc. No. DM0963) from www.drybell.com/documents/Sym_And_Range_adjustment_DM0963.pdf.

PEDAL+ (for connecting an expression pedal or external footswitch) 14

The PEDAL+ jack on V-2 is multifunctional. In factory default mode it is set to expression pedal without the CANCEL mode enabled. For external speed control (or CANCEL and TAP TEMPO functions) you can use an expression pedal wired tip to wiper. Any expression pedal that has a 5k-250k linear pot will work perfectly. Instead of using an expression pedal you could connect a DryBell F1-L. This is an external footswitch which can be used either for new V-2 functions like the Leslie FAST/SLOW function with adjustable ramp delay or as a two speed switch without the ramp function. Please see the wiring diagrams on page 2 of this manual (20, 21). You can find additional info about expression pedal modes, footswitches and PEDAL+ secondary options in the Options manual. For example, V-1 users that already own a Mission Engineering EP-100K pedal can use it just the same with their new Vibe Machine V-2.

If for some reason your expression pedal doesn't have a full speed range from minimum to maximum, you can calibrate the Vibe Machine V-2 to work with your specific expression pedal. This is recommended before you first use the expression pedal or in the event that you replace it with a different one. The process for entering expression pedal speed calibrating mode and calibrating the speed range is:

Step 1: Connect an expression pedal to the Vibe Machine V-2, then connect or reconnect the power supply, wait until the V-2 system LED starts flashing orange.
Step 2: Move the expression pedal quickly from full up to full down several times until the system LED changes from red to flashing green.

After the calibration process the V-2 pedal will always go back to its normal mode automatically. You can only enter the speed calibration mode within a few seconds of powering up and then moving your expression pedal up and down several times (during those few seconds). To re-enter speed calibration mode you need to disconnect and reconnect the power supply to restart the process. Also check the Options manual for further details.

POWER SUPPLY (no battery, only adapter) 15

You can use an unregulated or regulated 9V DC adapter (not included). The power consumption depends on Intensity settings. With the Intensity pot at approximately 1 o'clock, the average current draw is around 130mA. The maximum current peak is 165mA during the pedal's start-up process. If the voltage on the DC connector is lower than 8.91V, the pedal won't function properly. The maximum recommended continuous voltage on a DC power supply input is 16V. The maximum allowed short-term voltage is 25V. If you use high voltages in the recommended range (16V max), the Vibe Machine V-2 will generate more heat, this is normal. Different voltages do not affect the tone or headroom of the pedal. The Vibe Machine V-2 has internal protection against reverse power polarity and static discharges. Also the V-2 pedal has a power supply check function integrated. For more information on this, please refer to the Options manual.

INPUT and OUTPUT (jacks) 16, 17

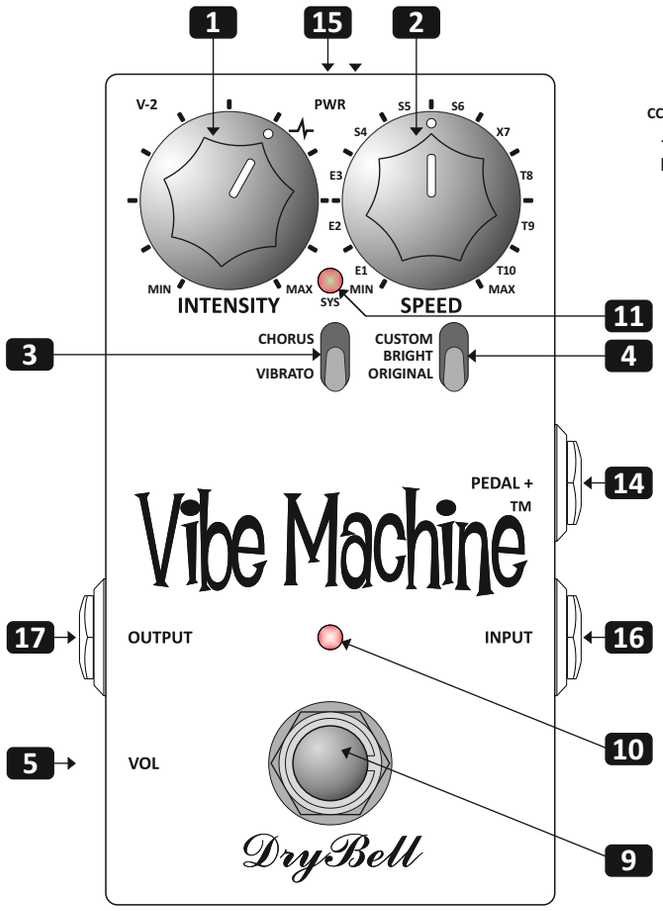
The input is on the right and the output is on the left side of the pedal.

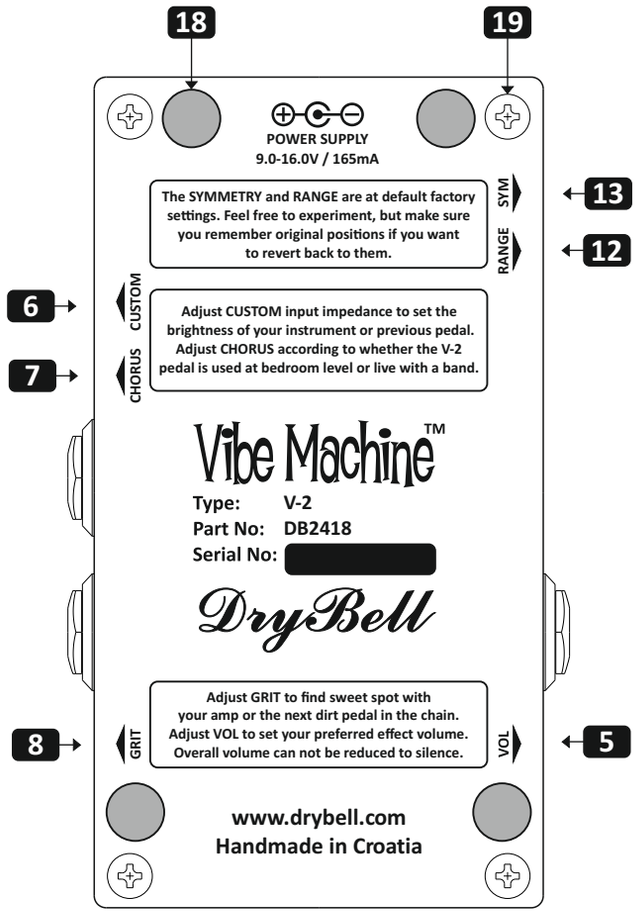
RUBBER FEET 18

The package contains 4 adhesive rubber feet (18) which can be placed on the bottom plate of the pedal. If you use velcro strips to install your pedal on a pedalboard, you may not want to use the rubber feet as well. The velcro should be mounted in a way that the 4 bottom screws (19) can be easily reached.

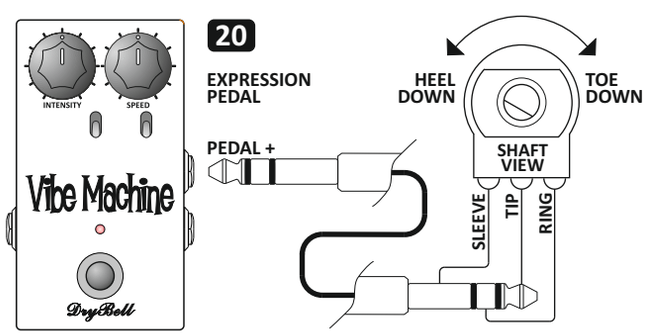
PACKAGE CONTENTS

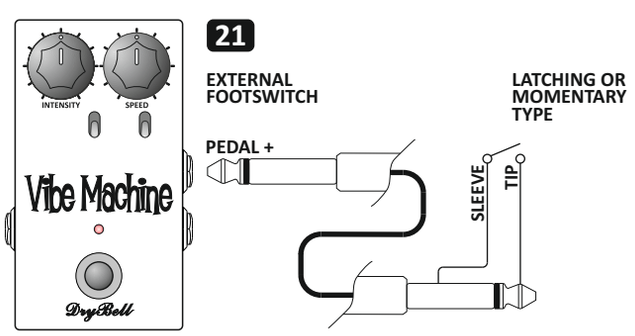
The Vibe Machine V-2 pedal, four rubber feet, screwdriver for trimmer adjustment and user's manual.





PEDAL + WIRING DIAGRAMS





TECHNICAL SPECIFICATIONS:

Model:	V-2
Manufacturer Part Number:	DB2418
Input impedance ORIGINAL:	69kΩ/1kHz
Input impedance BRIGHT:	1MΩ/1kHz
Input impedance CUSTOM:	adjustable 69kΩ -> 320kΩ/1kHz, (side CUSTOM trimmer)
Output impedance:	variable 1kΩ -> 90 kΩ/1kHz, (depending on GRIT trimmer)
External power supply:	Adapter 9V DC, (8.91Vmin > 16Vmax!)
Power supply connector type:	Barrel, Plug 5.5mm/2.1mm, Center Negative
Max current (pulse):	165mA (min 170mA power supply recommended, not included)
Length:	112 mm / 4,42 inch
Width (W/O jacks):	60 mm / 2,37 inch
Height (W/O knobs):	31 mm / 1,22 inch
Weight: (W/O package):	0,28 kg / 0,62 lb
Weight: (with package):	0,36 kg / 0,79 lb
Standard color/finish:	Graphite metallic / Powder coating

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2 YEAR WARRANTY

DryBell M.E.L. guarantees that this product will work without defects in materials or craftsmanship, for a period of two (2) years from the date of purchase. If a defect occurs within the warranty period, it will be repaired as soon as possible, free of charge. If the product cannot be repaired and the model is no longer produced, the product will be replaced with a current model or in agreement with the buyer, with a similar product. DryBell will extend the warranty period for the duration of service failure if it is not repaired within 30 days (not including transportation time). If the original buyer sells the product to a new owner, the warranty transfers to the new owner. All transportation costs for the service within the warranty period are paid by the owner of goods. This warranty covers manufacturing defects that occurred while the product was used according to DryBell's recommendations and instructions. The warranty does not cover loss or theft of products, and excludes failures caused by misuse, mechanical damage, liquid damage of any kind, being dropped, unauthorized modification, shock surge in electricity supply, lightning, improper storage and natural disasters. DryBell assumes no liability for any damages/injuries resulting from the use of this product. In using this product, the customer accepts the terms and conditions set out above. There may be occasional updates on this product; please visit www.drybell.com to find these.

DryBell 2 year warranty

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