

Vibe Machine™

..from serial No. #703

INTRODUCTION

Thank you for purchasing the Vibe Machine V-1 pedal from DryBell. The Vibe Machine is a top quality Uni-Vibe® type pedal developed to the highest standards. It 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. Currently (2013), Vibe Machine is the smallest vibe pedal in the world with all original Uni-Vibe options and more. **Enjoy!**

INTENSITY (pot) 1

Controls the depth and the character of the chorus (vibe) or vibrato sound and it defines the strength and dynamic of the pulsing nature of the effect. A more pronounced pulsing feel starts from around the 2 o'clock position and onwards. The contour of the intensity knob is custom designed to enable a quick and easy set up of different vibe sounds.

SPEED (pot) 2

The speed knob adjusts the speed pulsations of the vibe (chorus) or vibrato sound. Its size and placement also makes foot control possible.

VOLUME (side trimmer) 3

This trimmer adjusts the level of the output signal. At minimal setting the volume is reduced by 4dB, and the maximum setting gives a slight boost to input signal. So find your preferred effect volume and leave it. In bypass this trimmer has no effect. To set it please use a small plastic screwdriver.

VIBRATO/CHORUS (switch) 4

This toggle switch selects between the classic vibe/chorus sound and the vibrato sound, a very under used part of vibe pedals, this effect can give a great sense of movement when used in the right way.

BRIGHT/ORIGINAL (switch) 5

Original Uni-Vibe pedals had relatively low input impedance and a warm tone, so for that vintage "Vibe" set the switch to the "ORIGINAL" position. For a brighter tone flip the switch up to the "BRIGHT" position, this setting turns on the input FET buffer. If the Vibe Machine is the first (or only pedal) in your effect 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 BRIGHT/ORIGINAL switch will have no effect.

PEDAL+ (expression pedal jack) 6

For external speed control you can use an expression pedal. Vibe Machine V-1s from serial No. #703 onwards will work with all expression pedals (TRS) with a linear pot (tip to wiper). You can use any expression pedal that has a 5k, 10k, 25k, 50k, 100k or 250k linear pot. Also, you can calibrate the Vibe Machine to work with a specific expression pedal if your expression pedal doesn't have full speed range from 0% to 100%. This calibration is not necessary if your expression pedal has full resistance range but this instruction is here for such expression pedals that don't have full resistance range. Please see the wiring diagram on page 2 of this manual. Also, please see additional info about expression pedal models in our FAQ section at drybell.com.

Entering expression pedal speed calibrating mode and calibrating the speed range:

- 1) Connect an expression pedal to the Vibe Machine, then connect the power supply and wait for 10 seconds for the LED to start flashing properly
- 2) Disconnect the power supply and connect it again; after you reconnect the power supply, you have **only 3 seconds** to do the next point 3)
- 3) Move the expression pedal up and down several times until the LED stops flashing
- 4) When the LED stops flashing the V-1 pedal then enters speed calibration mode and you have 5 seconds **to move the expression pedal from full up to full down**. The Vibe Machine will remember the minimum and the maximum physical position of the expression pedal and after 5 seconds will automatically go back to normal mode.
- 5) You have now calibrated your expression pedal speed range and the expression pedal has a full speed range from minimum to maximum.

When you no longer want to use the expression pedal, you have to recalibrate the speed range back to the pedals speed potentiometer. The procedure is very similar:

- 1) Disconnect the expression pedal, connect the power supply and wait for 10 seconds for the LED to flash properly
- 2) Disconnect the power supply and connect it again; after you reconnect the power supply, you have **only 3 seconds** to do the next point 3)
- 3) Rotate the speed potentiometer CW and CCW (from approx. 10 o'clock to approx. 2 o'clock) several times until the LED stops flashing
- 4) When the LED stops flashing, the V-1 pedal enters speed calibration mode and you have 5 seconds to rotate the speed potentiometer from full CCW to full CW. After 5 seconds the speed pot on the V-1 pedal will have full physical range; minimum speed for full CCW position and maximum speed for full CW position.
- 5) Now you have recalibrated your pedal's speed pot back to factory settings.

You can enter the speed calibrating mode only within 3 seconds after the power supply is turned on and if an expression pedal is moved up and down minimum 4 times (in this 3 seconds period). The speed calibrating mode lasts 5 seconds and after 5 seconds the V-1 pedal always goes back to a normal mode automatically and stays that way. To re-enter speed calibration mode you need to disconnect and connect the power supply again to restart the process. For many expression pedals you won't need to calibrate the speed range.

TFC OUTPUT (control output for controlling custom pedalboards) 7

When the V-1 pedal is turned on, a control voltage appears on the TFC output. For example, if you use an automatic looper on custom pedalboards, you can turn the Vibe Machine on, and automatically any other pedal (or something else) in your chain is activated/deactivated. This system significantly extends the capabilities of your pedalboard. Visit drybell.com for more information.

LESLIE SPEED ACCELERATION (internal jumper) 8

When using an expression pedal it is possible to turn on the Leslie cabinet mechanical inertia (speed up/slow down). When this option is enabled every time you move the expression pedal to a new position the oscillations gradually speed up or slow down to the new position. This option has no effect on a regular speed potentiometer of the Vibe Machine, only on the expression pedal if it's connected. To activate the Leslie speed acceleration option you need to remove the underside panel of the pedal, and set the jumper (8) to 'ON' position. By default, this option is disabled.

OUTPUT BUFFER (internal jumper) 9

The original Uni-Vibe had a high output impedance. Therefore, longer cables from a pedalboard to an amplifier tend to drown treble tones. As high impedance lines are more sensitive to interferences, hum and noise are increased. If the output buffer is activated, i.e. line impedance is low, all mentioned interferences are reduced. By default, this option is disabled. To activate the output buffer you need to remove the underside panel of the pedal, and set the jumper (9) to 'ON' position. Please see additional info in our FAQ section at drybell.com.

RANGE & SYMMETRY (factory-set side trimmers) 10

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 a small plastic screwdriver to adjust the trimmers. You can achieve a variety of throb sounds. Be sure to mark each trimmers' positions with a Sharpie or a black marker before you start because these trimmers are very sensitive to small adjustments, then you will be able to return to your pedal's original settings.

TRUE BYPASS with PULSING LED (footswitch) 11, 12

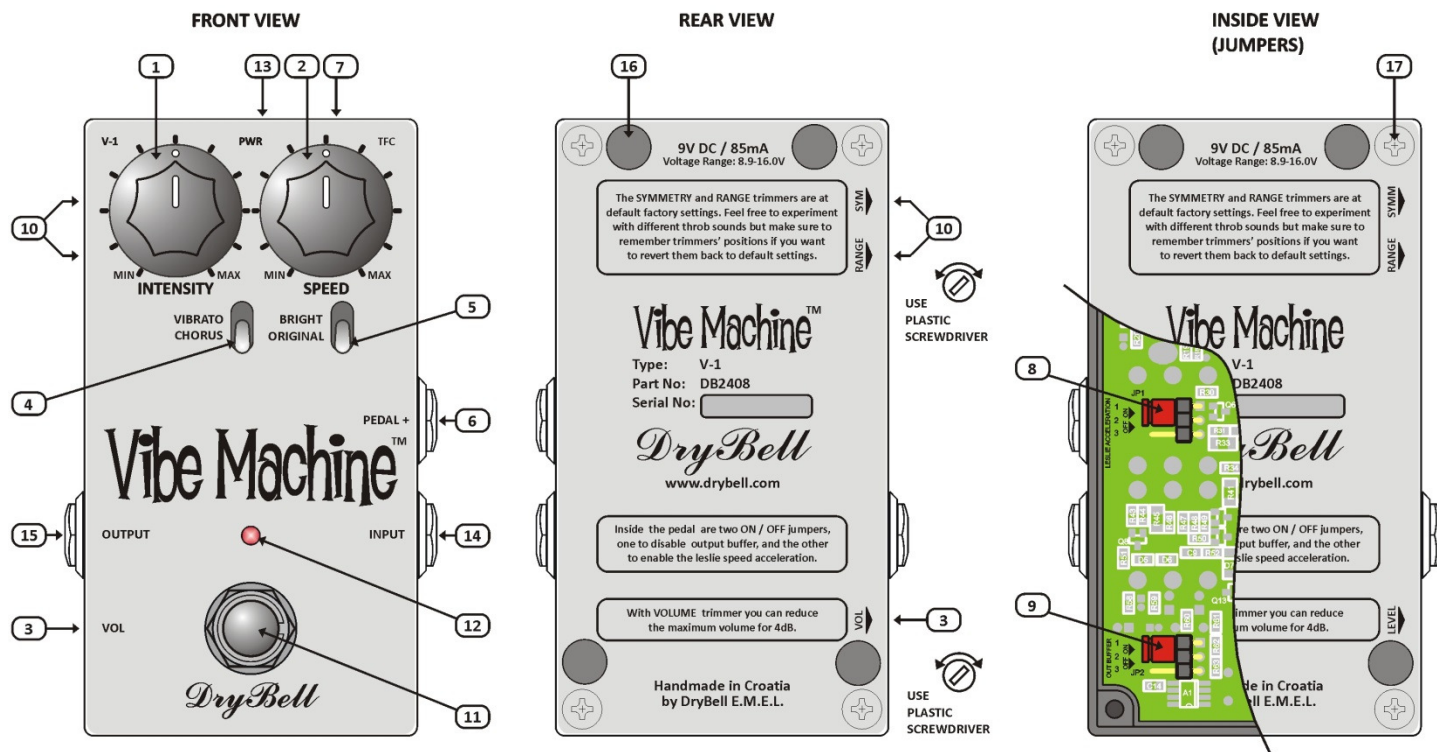
Each time you press the footswitch (11), the effect is turned on or off. This means that when the pedal is off, internal circuits (and buffers also) have no effects on the signal path. When the effect is active, the red LED (12) will flash in time to your speed setting. The Vibe Machine V-1 does not have a buffered bypass. Please see additional info in our FAQ section at drybell.com.

POWER SUPPLY (no battery, only adapter) 13

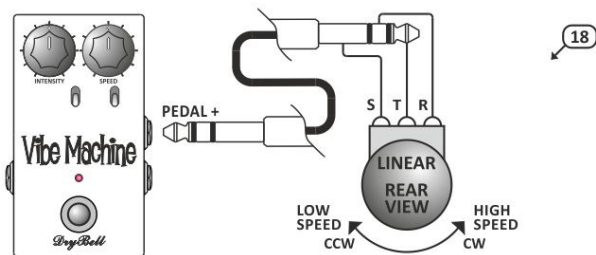
You can use unregulated or regulated 9V DC / 150mA adapters. The maximum recommended voltage on DC power supply input is 16V. The maximum allowable short-term voltage is 25V. If you use high voltages in the recommended range (16V max) the Vibe Machine will generate more heat, this is normal. Vibe Machine has an internal protection against reverse power polarity and static discharges.

INPUT and OUTPUT (jacks) 14,15

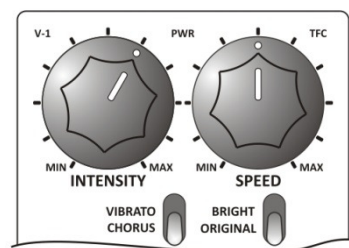
The input is on the right; the output is on the left side of the pedal.



EXPRESSION PEDAL WIRING DIAGRAM



START SETTINGS



When the potentiometer rotates clockwise (CW), speed increases. To change the direction, replace S and R wires. In the wiring diagram on the left, potentiometers are shown from their back side.

RUBBER FEET 16

The package contains 4 adhesive rubber feet (15) which can be placed on the bottom of the Vibe Machine pedal (15). If you use velcro strips to install your pedal on a pedalboard, you may not want to use the rubber feet. The velcro should be mounted in a way that the 4 bottom screws (17) can be easily reached so you can remove the back plate afterwards.

PACKAGE CONTENTS

Vibe Machine V-1 pedal, four rubber feet in a plastic bag, user's manual.

1 YEAR BASIC WARRANTY

DryBell E.M.E.L. guarantees that the product will work without defects in materials or craftsmanship, for a period of one (1) year from the date of the purchase. Footswitch and internal bulb replacement are covered during the first six months of warranty. If a defect occurs within the warranty period, it will be repaired as soon as possible free of charge. If the product can not 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 not repaired within 30 days (not including transportation time). If the initial 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 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.

5 YEAR EXTENDED WARRANTY

The original purchaser of the DryBell product is entitled to one free product repair in the period of extended warranty. Extended warranty period runs from the date of expiry of the basic warranty (1 year) to five (5) years from the date of purchase. If your product warranty has expired, repairs are performed by installing original parts, which are chargeable. During the extended warranty, shipping costs in both directions are payable by the original purchaser.

SPECIFICATIONS:

| | |
|---------------------------------|--|
| Model: | V-1 |
| Manufacturer Part Number: | DB2408 |
| Input impedance ORIGINAL: | 50kΩ |
| Input impedance BRIGHT: | 1MΩ |
| Output imp. W/O output buffer: | 100kΩ |
| Output imp. with output buffer: | 50Ω |
| External power supply: | Adapter 9V DC, (8.9Vmin > 16Vmax!) |
| Power supply connector type: | Barrel, Plug 5.5mm/2.1mm, Center Negative |
| Max current (pulse): | 130mA (min 150mA power supply recommended) |

SPECIFICATIONS (continued):

| | |
|------------------------------|---|
| TFC output ON / OFF voltage: | ON state = 8.3V DC, OFF state = 0V |
| TFC output impedance: | 500Ω |
| TFC output connector type: | Barrel, Plug 4.0mm/1.7mm, Center Positive |
| Length: | 112 mm / 4,42 inch |
| Width (W/O jacks): | 60 mm / 2,37 inch |
| Height (W/O potentiometers): | 31 mm / 1,22 inch |
| Weight: (W/O package): | 0,270 kg / 0,56 lb |
| Weight: (with package): | 0,48 kg / 1,06 lb |
| Standard color/finish: | Red Candy / Powder coating |

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