

# The Engine™

FOUNDATION PREAMP

## *A powerful voice for musicians.*

*The Engine is a highly versatile and fully analog foundation preamp pedal with distinct voicing inspired by 60's British classic amps and sounds. It covers all the classic overdriven tones on a variety of amps and can be pushed even more with our take on the classic Range(master) and a powerful EQ/Boost section.*

### INTRODUCTION

Thank you for purchasing The Engine pedal from DryBell Guitar Effects, Croatia. The Engine's unique synergy of dynamic overdriven foundation tone combined with a sparkling Range boost will give you a huge sonic world to explore. It consists of two fully Analog sections.

Side A is very carefully tuned to capture the sound, feel and dynamic response of a real 60's British non-master-volume amp. You can easily get that cranked Tube-like distortion sound but without the need to play at ear-shattering levels.

Side B's most powerful feature Range is our take on the Treble Booster from the 60's. Besides that, the high headroom and distortion-free Clean Boost and versatile Low & High EQ will help you even further in tailoring your tone.

Stacking these A&B sections (A>B or B>A) with the Order switch can yield numerous combinations of incredibly rich sounds.

### LEVEL (A) (big knob on Side A) 1

Controls the overall output volume of Side A. This control alone is enough to push the front end of any amp into natural overdrive.

### GAIN (big knob on Side A) 2

Adds additional grit & dirt to your tone. It can go from subtle Crunch to full blown Distortion with a simple twist of the knob. Side A is very touch sensitive so the amount of dirt on tap is easily controlled with your pick attack.

### TONE (small pot on Side A) 3

Controls the high frequency spectrum of Side A. When used in conjunction with Side B's tone controls, The Engine will bring out the finest details of any amp you use.

### SHAPE (small pot on Side A) 4

Changes the overall character and level of mid frequencies. It's a key feature for adjusting the voice of your foundation tone and it can really help you fine tune the tonal details in your sound on any amp that you're playing.

### ORDER (pushbutton switch) 5

Controls the side stacking order of the Preamp (A > B or B > A). A very useful control for selecting between "more gain" or "more volume" and it really helps in terms of pedalboard position.

### LEVEL (B) (big knob on Side B) 6

Controls the overall output volume of Side B. It acts as a remarkably high headroom and distortion free clean Boost, thanks to the high internal power supply voltage (23V). Turned fully CW, the gain of this boost stage is 22.4dB or can be reduced up to 7dB at its minimum setting (-7dB turned fully CCW). Unity gain zone (0dB) is approx. at 10 o'clock.

### RANGE (big knob on Side B) 7

Controls specific mid frequencies needed for pushing through the mix while adding a glorious sparkle and bite to your tone. It's the most powerful element of Side B and very similar to the old classic "Rangemaster". Unity gain is at 12 o'clock.

### LOW & HIGH (small pots on Side B) 8,9

LOW controls the low frequencies from -15.8dB up to +9.3 dB. HIGH controls the high frequencies from -13.2dB up to +7.2dB. They are not symmetrical tone controls and both knobs have unity gain position at approx. 12:30. Both are active controls and carefully tuned to be compatible with a wide range of amps and are a great addition to the Range control.

### BYPASS SYSTEM (footswitches, LEDs) 10,11,12,13

The Engine has a buffered bypass. Each time you press the footswitch the effect is turned ON or OFF. When Side A is active, the red LED will light up. The white LED will light up for Side B. The bypass system has a built-in high headroom, ultra-low noise buffer circuit, designed to have no signal loss, unlike most classic transistor buffered pedals.

### INPUT and OUTPUT (top mounted jacks) 14,15

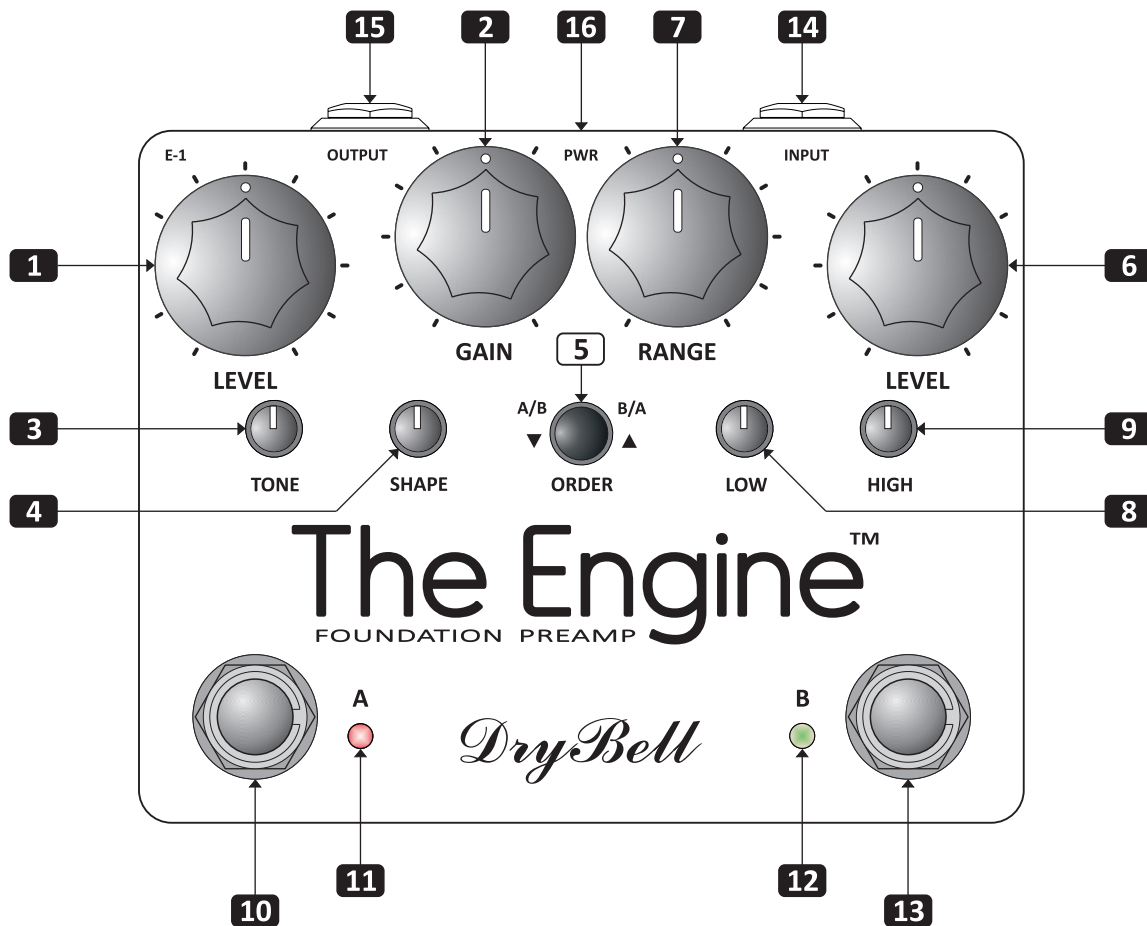
The input is on the right and the output on the left side of the pedal.

### POWER SUPPLY (no battery, power supply only) 16

We recommend a regulated 9VDC/100mA PSU (not included). Maximum allowed power supply voltage is 18V (must be regulated!). Higher voltages than 9V (18V max) will affect the tone, dynamics and internal headroom of The Engine's side A only. Side B has a voltage regulator inside and it won't be affected by higher voltage. The current consumption for use with electric guitar is about 83mA. If you connect another device with much higher output than an electric guitar, we recommend using a power supply with 150mA output. The Engine has internal protection against reverse power polarity and electrostatic discharges.

### PACKAGE CONTENTS

The Engine pedal, four rubber feet and user's manual.



**TECHNICAL SPECIFICATIONS:**

Model:	E-1
Manufacturer Part Number:	DB2438
Input impedance:	900kΩ/1kHz
Output impedance:	250 Ω/1kHz
The Engine's nominal input level: All types of electric guitar pickups	
A Side max output level (9V PSU):	8.5 Vpp / 11.7 dBu
A Side max output level (18V PSU):	10.1 Vpp / 13.3 dBu
A Side max gain (all pots on max):	53dB / (mid-range freq.)
B Side max output level: 20.5 Vpp / 19.2 dBu	
B Side max gain (all pots on max):	41.0 dB (mid-range freq.)
Max bypass level w/o clipping:	14.0 Vpp / 16.1 dBu
External power supply:	Adapter 9V DC, (9.0Vmin - 18.1Vmax), 100mA minimum
Power supply connector type:	Barrel, Plug 5.5mm/2.1mm, Center Negative
Nominal current (with guitar):	83mA
Length (w/o jacks):	95 mm / 3.74 inch
Width:	120 mm / 4.72 inch
Height (w/o knobs):	35 mm / 1.38 inch
Weight: (w/o package):	0.43 kg / 0.95 lb
Weight: (with package):	0.51 kg / 1.12 lb
Standard color/finish:	Dark blue metallic matte / Powder Coating

**2 YEAR WARRANTY**

DryBell Guitar Effects 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 <https://drybell.com> to find these.

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