

J. Everman Custom Analog Effects  
Presents

# THE ULTRA DRIVE

## Distortion Generator



MODEL UD-1 rev 3

### **About the unit**

Your new Ultra Drive pedal contains several key features that give it its distinctive sound. This pedal uses multiple cascaded gain stages, each tuned to produce varying amounts of distortion. These gain stages use both Silicon diodes and NOS (New Old Stock) Germanium diodes to produce harmonically rich distortion tones.

To add to the Ultra Drive's distortion and headroom, we have integrated a charge pump chip into the design. This chip takes your normal 9VDC power input and jumps it up to around 18VDC internally. This voltage gain provides for increased headroom and clarity, truly allowing for that "wall of tone" type sound.

## Internal Adjustments

- 1) **Tone Switches** - These switches (Figure 1) select capacitors that reconfigure the pedal's tone stack circuit. The value of the tone stack increases as you add switches. Suggested settings are listed in the table below:

Setting	Switch set to "ON"	Tone Stack Value
A	NONE	.0022 $\mu$ F
B	1 (factory setting)	.0032 $\mu$ F
C	2	.0044 $\mu$ F
D	1 & 2	.0054 $\mu$ F

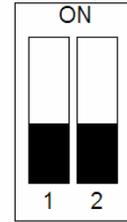


Figure 1

- 2) **Bias Control** - This bias control (Figure 2) is factory set to a fully open position. Some amps are "brighter" than others and will require you to adjust this dial. Turning this dial will soften the pedal's upper end distortion spectrum.

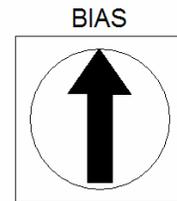


Figure 2

## External Adjustments & Inputs

- 1) **Sustain** - Dials in the "wall of tone" sound
- 2) **Filter** - Movable Scoop filter
- 3) **Tone** - Controls the tone of the unit
- 4) **Volume** - Adjusts the output volume
- 5) **Power Jack** - 9VDC power jack, standard center negative design
- 6) **Input** - Guitar input jack
- 7) **LED** - Activation LED
- 8) **Stomp Switch** - True bypass stomp switch
- 9) **Output** - Output to amp

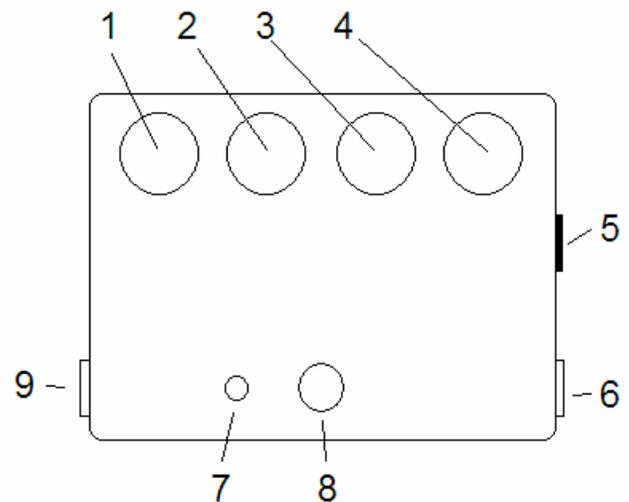


Figure 3

## Additional Information

Remove the guitar cable from input jack when not in use to preserve battery life. If you choose to use a 9V battery, simply unscrew the four screws on the bottom of the pedal to access the battery compartment.

Pedals need maintenance too; keep the bottom on the pedal so dust and liquids cannot short out any contacts. Should repair of the unit be necessary please contact us regarding any issues: [sales@jeverman.com](mailto:sales@jeverman.com)