

## The DHA VT2-Twin-EQ-Bass "Custom Shop"

Thank you for purchasing the DHA VT2-Twin-EQ-Bass overdrive and distortion effects pedal, we are sure you will be very happy with it. The VT2-Twin-EQ-Bass uses two 12AX7 (ECC83) valves to generate classic pure valve tones. There are two separate selectable channels Red or Blue with separate 3 band active EQ on each. The VT2-Twin-EQ-Bass is capable of producing a very wide range of gains to suit all types of playing. It is intended to be used in front of a valve amplifier, but will also work well with solid state amps or even recording set ups acting as a valve pre-amp.



The VT2-Twin-EQ-Bass has a two built-in voltage doubler circuits; this generates 24V from the existing 12V power supply. The 24V is used to supply the anodes or plates of the valves, two are used to ensure good power supply decoupling between channels.

The VT2-Twin-EQ-Bass is fitted with 2.1mm external PSU adaptor for use with a 12v @1200mA external supply. The user should use a well regulated external supply as the better the regulation then the less the hum when at higher gain levels. If you find there is a lot of hum at high gains then the

problem will be the supply is not well regulated. I have found that Switchmode supplies work well and these are standard for higher current types, so it is likely that any 12V supply over 1.25A will be a switchmode. The inner of the connector is the positive, there is reverse polarity protection so no harm will be done if you get it wrong.

Blue channel - This channel is clean to crunch using both stages of the first valve. The circuit is the same as our VT1-EQ-Bass-Drive. There common I/P pad control between the Red and Blue channels as well as the DI and Headphones. The Blue channel controls are I/P pad, Gain, Level, Treble, Middle, Bass pot plus a Bright and Boost switch. When the Blue channel is select via the Red or Blue foot switch then the right hand side valve will light Blue.

Red channel - This channel is clean to overdrive using a shared first stage of one valve and both stages of the second valve giving 3 valve stages in all. The Red channel controls are I/P pad, Gain, Overdrive, Level, Treble, Middle, Bass pot plus a Bright and Boost switch. When the Red channel is select via the Red or Blue foot switch then the right hand side valve will light Red.

Red or Blue Level sets the output level of the effect to your amplifier, there is a lot of gain generated by the valves and selectable op-amp generated boost and this will overdrive the input of your guitar amplifier with ease. Inside the pedal there are 2 user adjustable pre-sets marked Red Boost and Blue Boost, these set the level of boost which is selected for either channel via the boost switches.

Red or Blue Gain sets the level into the second stage of the valve on the selected channel and hence the level of gain. Use your volume control on your guitar to control the gain on the first stage of the valve, you will find that the VT2-Twin-EQ-Bass responses very well to this and you can control the break-up distortion like this.

Red Overdrive sets the level into the second stage of the valve on the Red channel and hence the level of Overdrive on that channel.

Each channel has its own active 3-band EQ which cut and boost around 15dB in each band, so the 12o'clock position is a flat response.

Each channel has its own Bright and Boost switches. Bright increases the treble response and Boost switches in a clean Op-Amp boost to the signal. There is a separate red and blue out jacks as well as the main out, these provide just the red or blue channels not the selected channel when not in by-pass, this is useful for recording or using two amps.

The I/P pad is useful when using high output or active pickups or when using the effect in a line level loop. The I/P Pad control is common to both channels.

The XLR connector provides a balanced DI out for recording and low noise feeds to the desk or amp. There is a 3 position ground switch with ground, float and ploat positions which are useful should a ground loop hum occur. There is DI level pot which is common to both channels and it and the DI output act upon the selected channel or by-passed signal.

The Headphone out socket is for quiet practice. There is Headphone level pot which is common to both channels and it and the Headphone output act upon the selected channel or by-passed signal. There is some background hiss on the headphone out socket and hence it is not intended as a line out.

The Line socket routes the line in signal to the headphones so that you can play along to CD's, MP3's, iPods, etc.

So, just plug your guitar into the jack with the guitar drawing and your amplifier into the jack with the amp drawing and you are off and running!

Your pedal is covered for any parts and labour required to repair it should it go wrong within 12mths of purchase. This does not cover misuse of the product but we will be happy to repair this at cost as we will for any units which fail outside of the 12mths. The owner of a faulty pedal will pay all the postage costs. Here at DHA we take a great pride in all our effects and amplifiers and we welcome comments from our customers at [davehallamps@aol.com](mailto:davehallamps@aol.com) Once again we thank you for your purchase and we wish you luck and lots of fun with your music.

Best regards

Dave Hall Amps