



BAE AUDIO

HOT FUZZ INSTRUCTION MANUAL



Using and Understanding the BAE Hot Fuzz Pedal

A NOTE ABOUT THE BATTERY AND JACKS:

Your Hot Fuzz Pedal sports two True Bypass footswitches. To further maintain sonic purity, the input and output jacks are not involved in the grounding of the power circuit for the battery or remote power supply in any way. The input jack has an additional, completely isolated set of contacts which switches either the battery or remote supply on when the plug is inserted. The power remains on as long as the input jack is plugged into, whether the unit's circuits and LEDs are on or off. This eliminates any pops or pulses when activating the stomp switches. To conserve battery power, remove the input cable from the unit when not in use.

NOW LET'S GET ON WITH IT:

Guitarists each have their own way to use and experiment with a new pedal. That being said, for those seeking to understand what the controls actually do, there lies an expansive multitude of tone colorations that are possible.

The HOT FUZZ contains two completely independent circuits. Each can be used separately to shape your tone, but they can also both be used simultaneously to introduce a whole additional level of tone shaping...

HI FREQ BOOST:

When the HI FREQ BOOST is enabled (Left Stomp switch; the green LED will come on), the frequency response of your guitar will be altered. It tips toward the high end, such that treble sounds in the range of 1KHz to 7.5KHz will be boosted by as much as +9dB.

If you set the HI FREQ BOOST GAIN control to about 11:00 o'clock, the level will be nominally matched to the BYPASS level, but with the high frequencies boosted. From there, you can adjust the GAIN control to further increase the entire level of your guitar with the boosted highs.



The chart below shows the amount of boost at various frequencies, and begins to fall off beyond 7.5 KHz:

Frequencies:	Boost (GAIN at 11:00 o'clock):
1 KHz	0 dB (reference)
2.5 KHz	+5.8 dB
5 KHz	+8.8 dB
7.5 KHz	+9.2 dB
10 KHz	+8.8 dB

It is useful to remember that there are three places where gain and overload/distortion/fuzz can be affected: the guitar volume and tone controls, the pedal controls, and the amplifier controls.

By realizing this and setting your controls to work together, you can achieve the greatest variation in tone with minimal further adjustments to all your controls.

Once you've dialed that in, it also allows you to invoke the effect of the Hot Fuzz by merely controlling you guitar level and touch.

You can adjust the GAIN control to suit the level and tone of the HI FREQ BOOST you desire.

FUZZ:

Now the fun begins...Turn off the HI FREQ BOOST and press on the FUZZ switch (Right stomp switch; the red LED will come on). This will bring the other four controls to life: BASS, TREBLE, JUICE, and GAIN. Set them all to about 10:00-11:00 o'clock, and you'll have a good starting point that closely matches your guitar level with the FUZZ off. You may or may not hear fuzz at this point – that will be influenced by your guitar and amplifier settings.

Higher settings on the HOT FUZZ will generate more overload into the amplifier. You will be hearing overload generated by the HOT FUZZ itself AND possibly amplifier overload as well (depending on settings).

Play with the controls to see how they affect your tone.



You will find that using either one of the tone controls (BASS or TREBLE) in combination with the JUICE control will give you excellent FUZZ results.

At lower to mid settings you will achieve a warm, sweet fuzz. As you get closer to the extreme ends you are supplying very high gain and chronic fuzz, so be careful!

The FUZZ GAIN can be used to control the overall level, so that you can achieve extreme fuzz at lower volumes if desired.

Here are the tone specifications of the BASS and TREBLE controls:

JUICE and GAIN controls remain at 10:30 o'clock for all measurements.

BASS control: nominal reference setting at 10:30 o'clock = 0 dB:

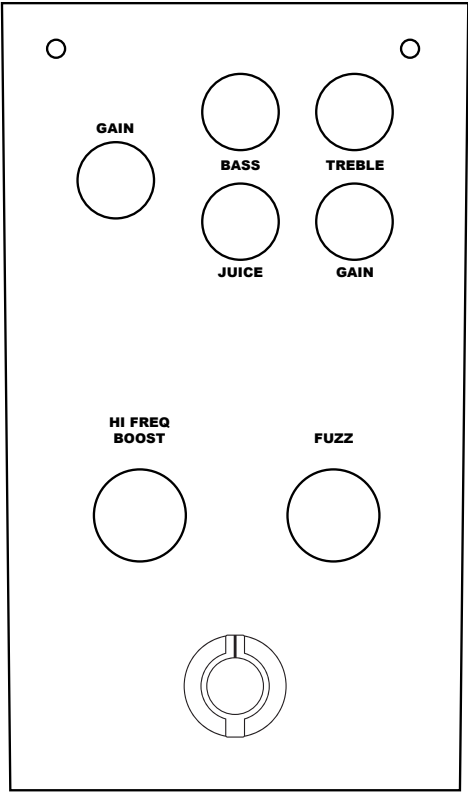
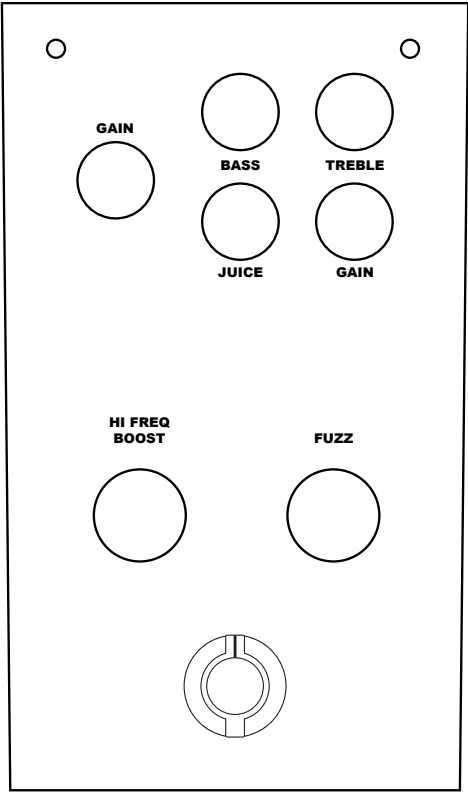
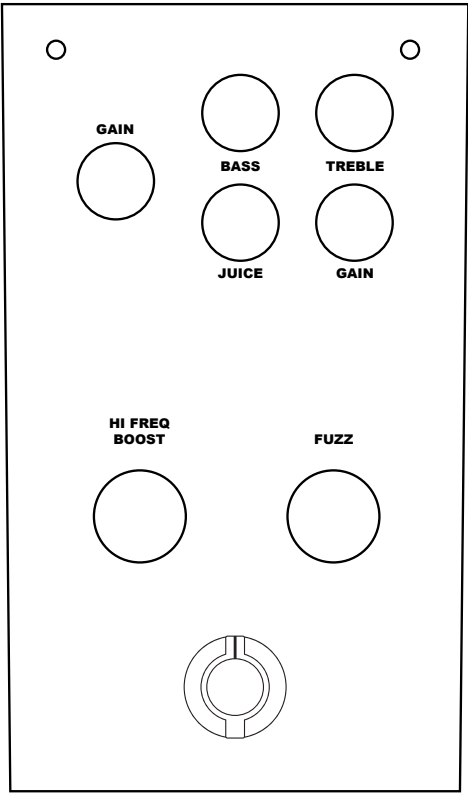
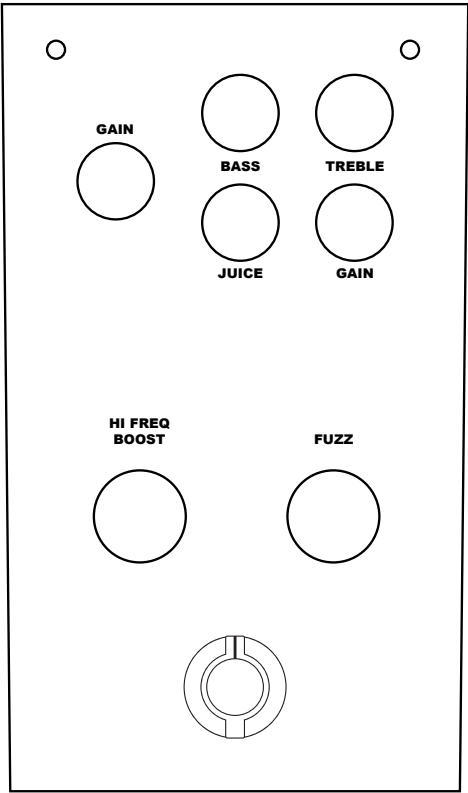
TREBLE control: nominal reference setting at 10:30 o'clock = 0 dB:

Frequencies:	Cut (Min.)	Boost (Max.)
1 KHz	-0.4 dB	+12 dB
800 Hz	-0.9 dB	+12 dB
400 Hz	-1.9 dB	+12.3 dB
200 Hz	-3 dB	+16.4 dB
100 Hz	-3 dB	+22 dB
80 Hz	-3.7 dB	+23 dB
40Hz	-5 dB	+26 dB

Now, the HI FREQ BOOST can be brought in to further enhance the highs and fuzz effects. Enjoy!

Frequencies:	Cut (Min.)	Boost (Max.)
400 Hz	0 dB	+12 dB
800 Hz	-0.38 dB	+13.6 dB
1 KHz	-0.4 dB	+16.9 dB
2.5 KHz	-3.3 dB	+27.6 dB
5 KHz	-6 dB	+31.4 dB
7.5 KHz	-8.2 dB	+47.5dB
10 KHz	-7 dB	+34.2 dB

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NOTES

