

Hartke BASS ATTACK 2

BASS PREAMP/DIRECT BOX WITH OVERDRIVE



Owner's Manual

Important Safety Information

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling. Private household in the 28 member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one). For Countries not mentioned above, please contact your local authorities for a correct method of disposal. By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health.

Keep these instructions.

Follow all instructions and heed all warnings.

Do not place near heat sources, such as radiators, heat registers, or appliances which produce heat.

Guard against objects or liquids entering the enclosure.

Refer all servicing to qualified service personnel.

Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice "safe listening."

Samson Technologies Corp.

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Introduction

Congratulations on purchasing one of the most useful tools a bass player can own, the Hartke Bass Attack 2! The Bass Attack 2 is a serious preamp and direct box that provides dual functionality by incorporating great front-end tone shaping, along with a super-clean balanced output to send to your recorder or Front-Of-House mixer.

The Bass Attack 2 has three stages to shape your sound, including an EQ section, Hartke's famous Shape Circuit, and an overdrive that can go from a little bit of warmth to monstrous distortion. The Bass Attack 2 has extensive input and output connectors including 1/4" inputs, balanced XLR Direct Output and 1/4" Parallel Output, providing maximum flexibility for connecting to an amplifier, mixer and recorder. The Bass Attack 2 is perfectly at home in the studio or on the road. In fact, the zinc die cast enclosure ensures solid performance from night-to-night and venue-to-venue. Whether you are recording or playing live, the Bass Attack 2 will give you the sound you've been looking for.

In these pages, you'll find descriptions of the many features of the Bass Attack 2 bass preamp pedal as well as instructions for setting up and using the pedal. You'll also find a warranty card enclosed—please don't forget to follow the instructions so that you can receive online technical support and so we can send you updated information about these and other Hartke products in the future. Also, be sure to check out our website hartke.com for complete information about our full product line.

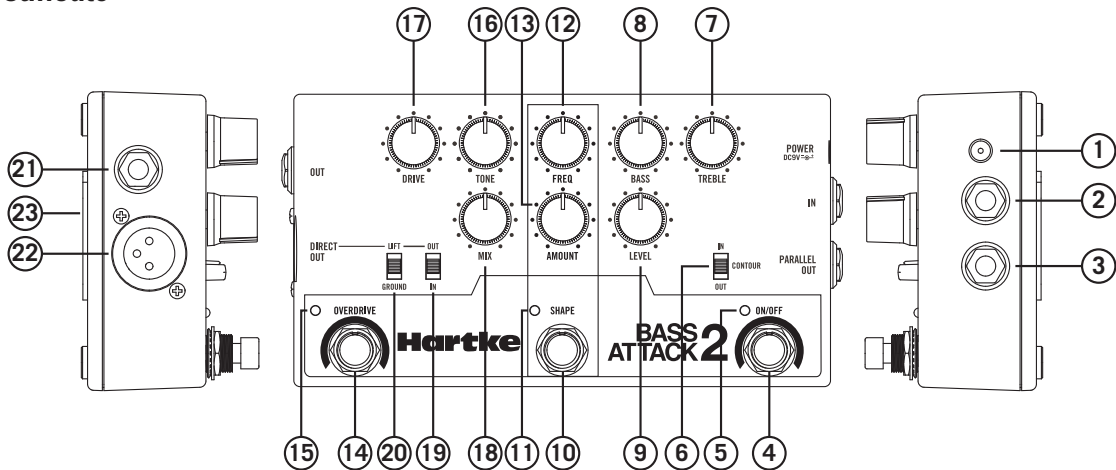
We recommend you keep the following records for reference, as well as a copy of your sales receipt.

Serial number: _____

Date of purchase: _____

With proper care and maintenance, your Bass Attack 2 will operate trouble-free for many years. Should your Bass Attack 2 ever require servicing, a Return Authorization (RA) number must be obtained before shipping your unit to Hartke. Without this number, the unit will not be accepted. Please call Samson at 1-800-372-6766 for an RA number prior to shipping your unit. Please retain the original packing materials and, if possible, return the unit in its original carton. If your Bass Attack 2 was purchased outside of the United States, contact your local distributor for warranty details and service information.

Callouts



Callouts

1. **POWER Inlet** - Power inlet for connecting the optional 9V DC power adapter (center negative).
2. **IN (Input) Jack** - Standard 1/4" input jack for connecting a passive or active bass.
Note: The INPUT jacks also functions as the power switch. Unplugging the cable from the INPUT will turn off the power to the Bass Attack 2. If you are using batteries, leaving the instrument cable connected to the INPUT jack will drain the batteries. It is recommended to remove the input cable when the pedal is not in use.
3. **PARALLEL OUT** - 1/4" output for passing the signal directly from the IN jack (unaffected) to a stage amplifier or monitor system.
4. **ON/OFF** - Footswitch used to turn on the effect on or off. The first stage of the Bass Attack 2 is the active EQ section, if no other stages of the pedal are on, only the EQ section will engage.
5. **ON/OFF LED** - This LED illuminates green when the pedal functions are engaged.
6. **CONTOUR IN/OUT** - This switch actives a fixed mid-scooped EQ curve.
7. **TREBLE** - Control knob used to adjust the high frequencies of the Bass Attack 2. This shelf EQ knob provides 18dB of boost or cut at 20kHz. At the center, 12 o'clock, position, the high frequency EQ is flat.
8. **BASS** - Control knob used to adjust the low frequencies of the Bass Attack 2. This shelf EQ knob provides 18dB of boost or cut at 30Hz. At the center, 12 o'clock, position, the bass frequency EQ is flat.
9. **LEVEL** - Used to adjust the overall output volume of the Bass Attack 2 at the 1/4" OUT jack and at the DIRECT OUT XLR jack when the IN/OUT switch is in the OUT position.
10. **SHAPE Switch** - Footswitch used to engage the Shape circuit.
11. **Shape LED** - This LED illuminates orange when the Shape function is engaged.
12. **FREQ** - Used to adjust the famous Hartke Shape circuit with a preset EQ curve that can be swept through a wide frequency range. Moving the Shape control clockwise causes the notch filter to be applied to higher frequencies while moving it counterclockwise causes it to be applied to lower frequencies. At the fully clockwise position, the filter is applied to the 800Hz frequency area; at the fully counterclockwise position, the filter is applied to the 200Hz frequency area.

Callouts

- 13. AMOUNT** - This control knob is used to set the depth of boost or cut of the SHAPE filter. The AMOUNT knob provides +15db of boost, or -25dB of cut.
- 14. OVERDRIVE Switch** - Footswitch used to engage the overdrive stage of the Bass Attack 2.
- 15. Overdrive LED** - This LED illuminates red when the Overdrive section is engaged.
- 16. TONE** - Adjusts the high frequency response of the effected signal. Turning the knob clockwise brightens the sound, conversely turning the knob counter-clockwise rolls-off the high frequencies.
- 17. DRIVE** - Control knob used to adjust the amount of the tube-emulation overdrive circuit. As the knob is rotated clockwise, the amount of overdrive increases.
- 18. MIX** - Control knob adjusts the blend between the dry signal and overdriven signal.
- 19. IN/OUT Switch** - When the switch is IN position, the Direct Output signal is a parallel the pedal IN jack, with no effects. When the switch is in the OUT position, the Direct Output the signal is parallel the pedal OUT jack.
- 20. LIFT/GROUND Switch** - If you are powering the pedal via 48V phantom power, set the switch in the GROUND position. Set the switch to the LIFT position to engage a ground lift, to remove hum at the XLR output.
- 21. OUT** - 1/4" jack carrying the line-level output signal (affected or bypassed signal) of the Bass Attack 2 pedal.
- 22. DIRECT OUTPUT** - XLR balanced output connector carrying the mic-level output signal, either with effect (parallel OUT jack) or off the input (parallel IN jack), depending on the position of the IN/OUT switch.
- 23. Battery Door** - If powering the Bass Attack 2 pedal with batteries, insert two AA batteries ensuring that the positive (+) and negative (-) ends are correctly positioned.

Operating the Bass Attack 2

Powering the Bass Attack 2

You can power the Bass Attack 2 with a two AA batteries, a standard DC power adapter, or by applying standard 48V phantom power. You can use whichever power source is most convenient, however, you should keep in mind that there are, from time to time, trade-offs. You may have a well grounded live sound or studio set-up that will not exhibit ground loop problems, but when you are on the road or in other studios you may experience ground loops which can result in hum. Because of possible ground loops, you may want to consider using a battery to keep the grounds from the Bass Attack 2 isolated from the grounds the rest of your gear. You can check the phantom or AC operation with a quick sound check to listen for any buzzing. If there is no buzz you have a well-grounded system. If you hear buzzing, go to battery operation.

Installing Batteries

The Bass Attack 2 may be powered by two AA batteries. To install the batteries, open the battery door on the bottom of the Bass Attack 2 pedal. Slide the batteries into the battery compartment. Be sure to observe the positive and negative polarity markings when inserting the batteries. The pedal will not turn on if the batteries are installed incorrectly. Replace the battery compartment cover.

Using a AC/DC Power Adapter

You can power the Bass Attack 2 using an optional 9V power supply available from your local Hartke dealer. Simply plug the power adapter into the DC inlet and then, plug the power adapter into a standard AC mains outlet.

Operating the Bass Attack 2

LIFT/GROUND SWITCH

The LIFT/GROUND switch provides two functions at the same time. In the GROUND position, the switch connects ground on the XLR cable, and by doing that, the switch also allows the unit to be powered by a phantom power supply. When the switch is set to the LIFT position, the ground is disconnected, and therefore, the phantom power operation is disabled.

Using Phantom Power

If you are connecting to a mixer that has phantom power, the Bass Attack 2 can be powered by connecting a standard mic cable to the Direct Output. Be sure to check that the mixer's phantom power switch is set to the "on" position. Then, make sure that the LIFT/GROUND switch is in the GROUND position so that phantom power is enabled.

About Equalization

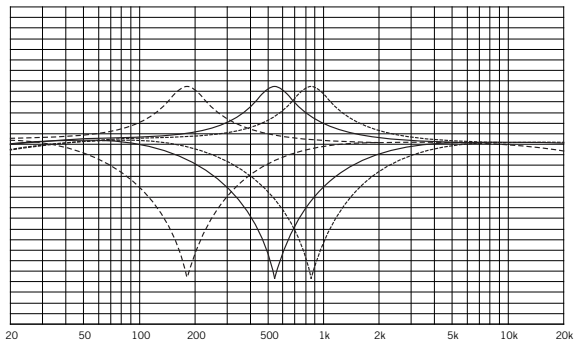
The Bass Attack 2 gives you control over shaping the sound of your bass, using a process called equalization. To understand how this works, it's important to know that every naturally occurring sound consists of a broad range of pitches, or frequencies, combined together in a unique way. This blend is what gives every sound its distinctive tonal color. The Bass Attack 2 EQ controls allow you to alter a sound by boosting or attenuating specific frequency areas - they operate much like the bass and treble controls on a stereo, but with much greater precision.

The Bass and Treble controls are shelving EQs, which provide boost when the control is moved clockwise from the center or cut when the control is moved counterclockwise from the center. In many instances, the best way to deal with equalization is to think in terms of which frequency areas you need to attenuate, as opposed to which ones you need to boost. Be aware that boosting a frequency area also has the effect of boosting the overall signal; specifically, too much Low EQ boost can actually cause overload distortion or even harm the connected speaker.

Hartke Shape Controls

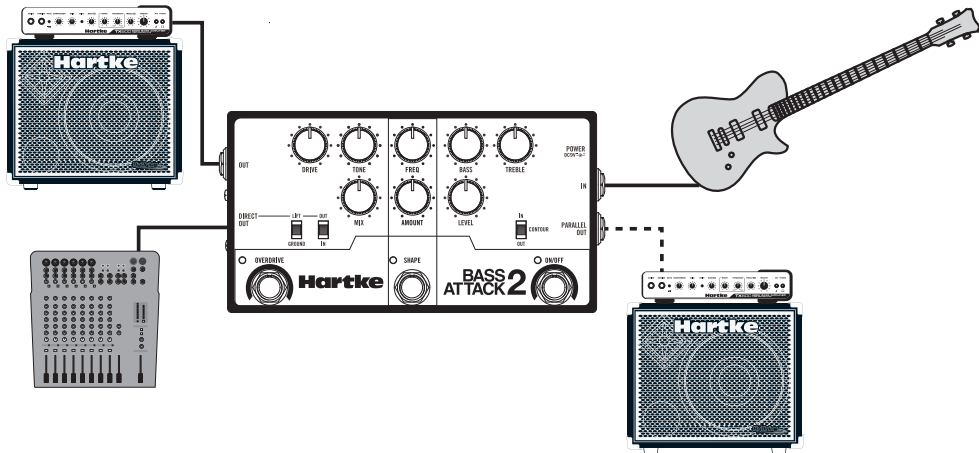
The SHAPE stage of the Bass Attack 2 applies a specialized EQ curve that can be swept through the instrument's frequency band to enhance the sound of your bass guitar. The Shape EQ is a notch filter that can be boosted or cut by adjusting the AMOUNT knob. By boosting the filter, you add more mids, which can add bite to your distortion sound. By turning the AMOUNT knob down, you create a scoop to the specified frequency area which allows you to customize the effect that best complements your bass guitar.

Moving the FREQ control clockwise causes the notch filter to be applied to higher frequencies while moving it counterclockwise causes it to be applied to lower frequencies. At the fully clockwise position, the filter is applied to the 800Hz frequency area. At the fully counterclockwise position, the filter is applied to the 200Hz frequency area.



Making Connections

There are many different ways to use the Bass Attack 2, however, the basic connection is the same in most installations and applications. The following section details the connections for a bass guitar plugged into an amplifier from the PARALLEL OUT jack (unaffected signal) or the OUT jack (affected signal) and feeding a mixer in a live or studio setting.



Specifications

Input Impedance	1 Meg Ohm
Output Impedance	OUT: Unbalanced 1k Ohm Direct Out: Balanced 400 Ohm Parallel Out: same as Input Source
Level	+6dB to -24dB
Tone Controls	Bass: +/- 15dB, 30 Hz Treble: +/- 18dB, 20kHz Contour {Switch}: Fixed Mid Scoop Curve
Shape	Frequency: 200Hz to 800Hz Amount: +15/-25dB
Direct Output IN/OUT {Switch}	IN: Parallel Input jack, OUT: Parallel Output jack
LIFT/GROUND {Switch}	Isolates the Input and Direct Output signal grounds
Power {in jack}	9VDC center negative
Batteries	2x AA – internal up-converter to generate 9v

At Hartke, we are continually improving our products, therefore specifications and images are subject to change without notice.

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