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You can read the recommendations in the user guide, the technical guide or the installation guide for BEHRINGER BASS V-AMP PRO. You'll find the answers to all your questions on the BEHRINGER BASS V-AMP PRO in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual BEHRINGER BASS V-AMP PRO
User guide BEHRINGER BASS V-AMP PRO
Operating instructions BEHRINGER BASS V-AMP PRO
Instructions for use BEHRINGER BASS V-AMP PRO
Instruction manual BEHRINGER BASS V-AMP PRO

BASS V-AMP/ BASS V-AMP PRO

User's Manual

Version 1.2 December 2005



BASS V-AMP



BASS V-AMP PRO

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Manual abstract:

3) Heed all warnings. 4) Follow all instructions. 5) Do not use this apparatus near water. @@@@6) Clean only with dry cloth. 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. @@9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety.

If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure--voltage that may be sufficient to constitute a risk of shock. 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. 11) Only use attachments/accessories specified by the manufacturer. This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature.

Please read the manual. 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. WARNING: To reduce the risk of fire or electric shock, do not expose this device to rain and moisture. 13) Unplug this apparatus during lightning storms or when unused for long periods of time.

14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. 15) CAUTION - These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions unless you are qualified to do so. 2 BASS V-AMP/BASS V-AMP PRO BASS V-AMP/BASS V-AMP PRO The Ultimate Tone Toolbox for Bass, Acoustic/Electric Guitar and Keyboard Amp Modeling 32 unsurpassed authentic amp models: 16 classic bass amps, 8 of the best V-AMP amp models, 4 typical keyboard amps and 4 acoustic models 23 renowned cabinet simulations: from traditional to contemporary sounds with original character--from 1 x 8" to 8 x 10", all the way to 18" speakers 16 absolutely first-class effects, e.g. Ultrabass, 3-Voice Synth, Delay/Loop Sampler, Chorus, Flanger, Rotary Speaker, Voice Box, Wah Wah as well as various combinations--may be used without amp simulation as well! 4 renowned distortion and overdrive stomp boxes with adjustable DRIVE, TONE, BOOST and SPLIT functions BASSV-AMP/BASS V-AMP PRO 125 outstanding presets in 25 banks, easily editable and storable Independent compressor and efficient denoiser Integrated, auto-chromatic tuner (can be calibrated) for easy tuning of bass guitars and other electronic instruments Extensive MIDI implementation for control/automation of all MIDI functions BASS V-AMP: Adjustable stereo aux input for mixing line-level signals (e.g. CD player, sound card etc.) BASS V-AMP: Gig bag and footswitch (for switching presets and activating the tuner) included BASS V-AMP PRO: AES/EBU and SPDIF outputs and adjustable wordclock input for synchronization with 24-bit and 32 - 96 kHz BASS V-AMP PRO: Balanced stereo XLR DI output with ground/lift switch and ULTRA-G speaker simulation BASS V-AMP PRO: Pre DSP and post DSP effects loops for connecting external effects processors Extremely rugged construction guarantees outstanding dependability, even under harsh conditions Conceived and designed by BEHRINGER Germany 3 BASS V-AMP/BASS V-AMP PRO FOREWORD Dear Customer, welcome to the team of BEHRINGER users, and thank you very much for expressing your confidence in us by purchasing the BASS V-AMP/ BASS V-AMP PRO.

Writing this foreword for you gives me great pleasure, because it represents the culmination of many months of hard work delivered by our engineering team to achieve a very ambitious goal: to present two outstanding virtual bass amplifiers, whose advanced sound capabilities and remarkable features offer a maximum of flexibility and performance. The task of designing our new BASS V-AMP/BASS V-AMP PRO certainly meant a great deal of responsibility, which we assumed by focusing on you, the discerning user and musician. Meeting your expectations also meant a lot of work and night shifts. But it was fun, too. Developing a product usually brings a lot of people together, and what a great feeling it is when all who participated in such a project can be proud of what they've achieved. It is our philosophy to share our enjoyment with you, because you are the most important member of the BEHRINGER team. With your highly competent suggestions for new products you've made a significant contribution to shaping our company and making it successful. In return, we guarantee you uncompromising quality as well as excellent technical and audio properties at an extremely reasonable price. All of this will enable you to give free rein to your creativity without being hampered by budget constraints. We are often asked how we manage to produce such highquality devices at such unbelievably low prices.

The answer is quite simple: it's you, our customers! Many satisfied customers mean large sales volumes enabling us to get better purchasing terms for components, etc. Isn't it only fair to pass this benefit on to you? Because we know that your success is our success too! I would like to thank all of you who have made the BASS V-AMP/ BASS V-AMP PRO possible. You have all made your own personal contributions, from the developers to the many other employees at this company, and to you, the BEHRINGER user. My friends, it's been worth the effort! Thank you very much, TABLE OF CONTENTS 1.

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..... 20 Uli Behringer WARNING! We would like to bring your attention to the fact that extremely loud sound levels may damage your hearing as well as your headphones. Please lower all OUTPUT LEVEL knobs all the way to the left before powering up the unit. 4 BASS V-AMP/BASS V-AMP PRO 1.

INTRODUCTION Congratulations! By purchasing the BASS V-AMP/BASS V-AMP PRO, you have selected a modern virtual bass amplifier that sets new standards in the world of bass preamps.

Our primary goal was to achieve the classic sound of bass amps by using "Physical Modeling" and implementing the newest DSP effects. Following the tremendous success of our V-AMP and its successor V-AMP 2, with the BASS V-AMP/BASS V-AMP PRO we are finally able to offer bass players the same diversity of sound. Should the condition of the cardboard box suggest that damage may have taken place, please inspect the unit immediately and look for physical indications of damage. Damaged units should NEVER be sent directly to us. Please inform the dealer from whom you acquired the unit immediately as well as the transportation company from which you took delivery.

Otherwise, all claims for replacement/repair may be rendered invalid. Please make sure the unit is provided with sufficient ventilation, and never place the BASS V-AMP/BASS V-AMP PRO on top of an amplifier or in the vicinity of a heater to avoid the risk of overheating. Before plugging the unit into a power socket, please make sure you have selected the correct voltage! Power is supplied via the cable included with the unit. All required safety precautions have been adhered to. When you hook up your BASS V-AMP/BASS V-AMP PRO to the mains, the unit is automatically turned on.

Please make sure that the unit is grounded at all times. For your own protection, you should never tamper with the grounding of the cable or the unit itself.

MIDI connections (IN, OUT/THRU) use standard DIN plug-in connectors. Data transfer takes place via the dry-contact optical couplers. Additional information can be found in chapter 8 ("INSTALLATION"). However, we went a step further and expanded the concept to include items of interest to keyboarders and electric/acoustic guitar players. Those who have already used the V-AMP or the V-AMP 2 will appreciate the BASS V-AMP/BASS V-AMP PRO as a terrific improvement. We wanted to create two devices that would stir conversations in years to come: the BASS V-AMP/BASS V-AMP PRO is universally usable and offers authentic amp and even speaker sounds--all this without having to transport heavy equipment! Additionally, the most modern multi-effects processors assure unprecedented tonal freedom. In short, the BASS V-AMP/BASS V-AMP PRO gives you a "sound machine" sporting the hottest features of the day. Future EPROM updates will make sure your BASS V-AMP/BASS V-AMP PRO always has the latest software and features.

BEHRINGER is a company in the field of profeet. The BASS control on the EQ section lowers or elevates bass frequencies. When the TAP button is depressed, the BASS control changes its function to DEEP control, which influences the sound in the lower frequency segment. The MID control lowers or elevates the mid frequencies. MID-SHIFT/SHAPE: When you select an amp simulation using the AMPS control, press the TAP button to use the MID control to adjust the mid frequency range (SHIFT). With amp simulations that don't originally have such a function, pressing the TAP button as described above activates the BEHRINGER SHAPE filter instead. The TREBLE control regulates the upper frequency range of an activated preset. Pressing the TAP button changes the function of the TREBLE control to PRESENCE control. This enables lowering/elevating upper frequency range values of a filter selected for the amp model active at this time. This filter simulates the frequencydependent coupling of tube amps.

Please pay attention to the special functions) of the following points: , (described under and ! The AMPS control lets you select one of the 32 amp simulations. 16 LEDs surround this control, whereby 1 LED is assigned to 2 amp types. You select one of the first 16 amp types (white lettering) by simply turning the control. To select the next 16 amps (17 - 32, grey lettering), keep the TAP button pressed as you turn the AMPS control. The "17 - 32" LED in the lower left corner of the DISPLAY lights up when one of the amp simulations numbered 17 - 32 is selected.

Additionally, you have the option to activate a PREAMP and TAP key combiBYPASS via the TUNER nation. When PREAMP BYPASS feature is activated, no AMPS control LED is on. To disengage the PREAMP BYPASS feature, either select an amp model of your choice or press the TUNER and TAP keys again.

These five keys are used (among other things) for preset selection of the presets bank shown in the display. In EDIT mode (activated by simultaneously pressing the arrow keys described under), the function of individual keys is indicated by the print located directly above the respective button: A: Activates the MIDI function.

By utilizing the arrow keys, the MIDI channel used for sending and receiving (1 to 16) can be set up. After selecting a MIDI function via the A key, pressing the TAP key relays the MIDI out connector to MIDI Thru. When in this mode, the unit sends no MIDI information of its own; instead, it merely passes on the data received at the MIDI In. B: Switches the DRIVE function on and off. When DRIVE is enabled, the controls , and take up the following functions: - GAIN regulates the distortion degree ("DRIVE"). - The VOLUME control regulates an additional volume control ("BOOST"). - Use the MID control like the tone control on a simulated distortion pedal ("TONE"). Our BEHRINGER SHAPE filter is automatically activated with amp simulations that do not have such a function (as described above) in the original. "Presence": Keep the TAP key pressed to use the Well-known floor effects units are simulated with these setups.

When the DRIVE function is activated, turning the EFFECTS MIX controls lets you also set up the WahWah.

The LEDs surrounding the EFFECTS MIX control show the position of the pedal. When the LED is not on, the Wah-Wah is inactive. When the Auto Wah/P-Funk'n is activated, the WahWah cannot be used. C: This key activates the CABINETS mode. Use the arrow keys to select a type of loudspeaker or a combination of loudspeakers. You can also completely switch off the speaker simulation ("-").



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Additional information is available in chapter 5.2. D: Activates the X-OVER function. Use the arrows to regulate the cut-off frequency between high-pass and low-pass filter.

This is done in 50 gradients (please also see chapter 6.3). E: Activates the DENOISER function. You may change the threshold of the expander by using the arrow keys. The EFFECTS control regulates the sensitivity of the noise reduction system, while pressing TAP changes the function of the EFFECTS control so that it regulates the frequency range of the noise reduction system (also see ch.

5.3). After preset editing, press the TUNER/EXIT button to quit (the EDIT MODE LED dies out). DIGITAL OUT: The digital output on the BASS V-AMP PRO can be configured by pressing buttons A and B simultaneously. The display shows "SP" for S/PDIF or "AE" for AES/EBU format.

Alternating between the two formats is done by using the TAP key. The LEDs let you see the respective sample rate (internal synchronization and sampling rates of 44.1, 48 or 96 kHz or external wordclock synchronization; see table 2.1). To select the most appropriate sampling rate for the receiving unit, please use the arrow keys. Press the TUNER/EXIT key to quit. CONFIGURATION: By pressing the D and E keys simultaneously on your BASS V-AMP PRO, you can select the global operating mode (keys B and D on your BASS V-AMP), so that an adjustment to diverse studio and live situations is possible (see chapter 3). Please press the TUNER/EXIT key to quit. The TUNER key engages the tuner. Additionally, you can exit the EDIT mode by pressing this key (see chapter 7).

Both arrow keys are used to select the next preset bank (BANK DOWN und BANK UP). Keeping the keys pressed lets you quickly jump through the preset banks. Pressing both arrow keys at the same time engages the EDIT mode. When you press one of the A - E buttons () afterwards, each arrow key takes over an edit function. The TAP key has eight functions: "Tap": Tap the TAP key in the rhythm of a tune, and the selected effect adjusts automatically to the appropriate speed. "Deep": By keeping the TAP key pressed, the BASS control assumes the function of a DEEP control, so that it regulates the sound in the deep bass end of the spectrum. "Mid-Shift/Shape": When an amp simulation is selected using the AMPS control, keep the TAP key pressed and use the MID control to regulate the middle portion of the frequency range (SHIFT). 6 2. CONTROL ELEMENTS BASS V-AMP/BASS V-AMP PRO TREBLE control to regulate PRESENCE in a particular amp simulation. "2nd parameter": The second effect parameter (regulated by the EFFECTS control) is accessed by keeping the TAP button pressed (see chapter 6).

"Amp models 17 - 32": Keep the TAP key pressed and select the desired simulation by using the AMPS control. "MIDI Thru": The MIDI Out connector can be set to MIDI Thru (see A). "Compressor": The compressor control regulates the . attack time when the TAP key is kept pressed (see DISPLAY shows the selected effects bank and gives information about the changes occurring while editing. When the tuner is enabled, the display shows the tuning of the connected instrument.

When one of the amp simulations numbered 17 - 32 is selected, the LED located in the lower left corner of the DISPLAY lights up. The display on the BASS V-AMP PRO gives additional information about the digital format and the sample rate of the unit, and indicates that the BASS V-AMP PRO should be synchronized to an external wordclock signal. Connected input signals are displayed with the green SIGNAL LED; distorted signals are marked with the red CLIP LED. When the TAP key is kept pressed, a second effects parameter can be regulated using the EFFECTS control (see tables 6.1 and 6.

2). The MASTER control regulates the overall volume of your BASS V-AMP/BASS V-AMP PRO. In addition to the AUX LEVEL control on the BASS V-AMP, this is the only non-programmable control of the BASS V-AMP/BASS V-AMP PRO. All additional controls are infinitely turnable, and their positions can be saved in a preset. The LED circles surrounding the VOLUME, BASS, MID, TREBLE, GAIN, EFFECTS MIX and COMPRESSOR controls each have nine LEDs. Either one LED or two adjacent LEDs light up in each LED circle at any one time. This occurs when the control is in an inbetween position. This way, a total of 17 positions can be displayed. The connector labeled INPUT is the 1/4" TS jack input of the BASS V-AMP/BASS V-AMP PRO, which is where an electric bass, an acoustic guitar, a keyboard etc. can be connected.

Use a common 1/4" mono jack cable for this purpose. The LINE IN switch regulates which signal source of the BASS V-AMP PRO is processed. When the switch is not pressed, this refers to the the signal connected to the input connector (e.g. electric bass). When the switch is depressed, the line signal connected to the PRE DSP) is routed to the processor (parINSERT (LINE IN, ticularly useful for keyboards). You can connect standard headphones to the PHONES connector of your BASS V-AMP/BASS V-AMP PRO. When headphones are connected to your BASS V-AMP/ BASS V-AMP PRO, studio mode 1 (S1) is automatically activated. If you opted not to select a loudspeaker type in your setup and then connect a set of headphones, your BASS V-AMP/BASS V-AMP PRO automatically selects a speaker simulation. This improves the subjective listening impression while using headphones.

To look up which speaker simulation is paired to which amp, please see table 5.1. However, you can deactivate a simulation while listening to headphones by selecting "-" in CABINETS mode. Conversely, it is possible to freely select the global output configuration when a set of headphones is connected, so that you can for example check the effect various modes have on your sound. Fig.

2.1: BASS V-AMP PRO display Tab. 2.1: Output formats and LED allocation in the diplay (BASS V-AMP PRO only) The EFFECTS control lets you select an effects preset or a combination of several effects. This continuously turnable control is surrounded by a circle of 16 LEDs.

Each effect has a corresponding LED. The COMPRESSOR control lets you compress or limit your sound. When you turn the COMPRESSOR control as far left as possible without triggering off a LED, the dynamic characteristics of the signal are not changed. The compressor on the BASS V-AMP/BASS V-AMP PRO controls two important functions: You set the compression sensitivity by turning the COMPRESSOR control. The more you turn the control, the more pronounced the compression. When the last LED lights up while turning the control to the right, the effect acts as a limiter. Turning the COMPRESSOR control while keeping the TAP key pressed lets you set the attack parameter of the compressor. More detailed information about how a compressor works can be found in chapter 5.3. When an effect is selected using the EFFECTS control , the proportion with which this effect influences the entire sound is regulated using the EFFECTS MIX control.



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As long as no LED lights up while turning the control leftwards, no effect is mixed in. This is also called an effect bypass, and mutes all effects across the board. 2.2 Rear panel of the BASS V-AMP PRO You can insert external effects into the serial insert loop featured on the BASS V-AMP PRO. The SEND/LINE OUT connector is connected to the input of your effects unit for this purpose. The SEND/LINE OUT output is tapped into directly before the digital signal processor (PRE DSP). This connector is therefore ideal for recording "dry" signals (i.e. without the effects portion). Please connect the RETURN/LINE IN connector with the output of your external effects processor or recorder.

When using the serial insert loop, please make sure that your effects processor is not set to 100% effect signal ("wet"), because otherwise the direct signal is missing. Pressing the LINE IN switch routes the signal connected to the RETURN/LINE IN connector to your BASS V-AMP PRO. This function may be of use when for example listening to a "dry" recording of a guitar signal on your BASS V-AMP PRO before running it through the effects. 2. CONTROL ELEMENTS

7 BASS V-AMP/BASS V-AMP PRO The stereo signal of the BASS V-AMP PRO without analog speaker simulations can be taken at the ANALOG LINE OUTPUTS.

For example, this is how you connect an external stage amp when performing live. The POST DSP INSERT RETURN (IN) stereo jack pair is used for connecting to the outputs of your external stereo effects processor. The signal taken at the POST DSP SEND (OUT) outputs is brought back into these jacks. The ground connection on the DI OUT outputs can be interrupted with the GROUND LIFT switch. This way, rumble noise and ground loops can be avoided.

The ground connection is interrupted when the switch is depressed (LIFT). The balanced stereo signal of your BASS V-AMP PRO can be taken at the DI OUT. This output should be connected to two balanced channel inputs on your mixing console. The signal level is set at +4 dBu in studio modes and at -10 dBu for live modes. The connection to the inputs of an external stereo effects unit can be made using the POST DSP SEND (OUT) stereo output. The signal present at this output is identical to the signal at the digital outputs. In contrast to the SEND/LINE OUT connector, the signal is POST DSP here. In case both of the respective RETURN (IN) connectors are not in use, the identical signal can be taken at the ANALOG LINE OUTPUTS BASS V-AMP PRO's signal can be digitally taken at the S/PDIF output. The digital output signal of the BASS V-AMP PRO in AES/EBU format is found at the AES/EBU output (XLR connector), provided AES/EBU has been selected as output signal E).

format (please adhere to the second note under Devices used to externally synchronize your BASS V-AMP PRO should be connected at the WORDCLOCK connector. This is a high-impedance connector, meaning that it has no internal terminal resistor (75 Ohm). This is the MIDI OUT/THRU connector of the BASS V-AMP PRO. The connector is preconfigured in the MIDI Out setting at the assembly plant, but it can be switched to MIDI Thru (see A). A MIDI foot pedal, for example the BEHRINGER MIDI FOOT CONTROLLER FCB1010, can be connected at the MIDI IN connector. Please also read chapter 8.4. SERIAL NUMBER. FUSE RETAINER/VOLTAGE SELECTOR. Please make sure that the voltage indicated in the voltage selector matches the local voltage before you connect the unit to the mains.

Always replace blown fuses with fuses of the same type. Some units feature a fuse retainer in which a selection between 230 V and 120 V is possible. Please beware: When using your unit outside of Europe on 120 V, a higher fuse rate is required (see chapter 8 "INSTALLATION"). Power is supplied via an IEC connector. The matching cable is provided with the unit.

Connect the power supply unit via the AC IN connector. When you plug the power supply unit in the mains, your BASS V-AMP is automatically switched on. Connect the stereo jack of your footswitch FS112V to the FOOTSWITCH connector. This will enable you to alternate between different presets within a preset bank. When you keep the DOWN button on the footswitch pressed for longer than two seconds, this automatically powers up the tuner.

Doing the same again alternately turns the tuner off. The volume of the signal fed into the AUX IN input is adjusted by using the AUX LEVEL control. By using the AUX IN jack input, you can feed an additional stereo signal into your BASS V-AMP. This way, you can play along to a drum computer or a playback. 3. APPLICATION EXAMPLES/ OPERATING MODES To optimally adapt your BASS V-AMP/BASS V-AMP PRO to various studio and/or live situations, you may choose between six different operating modes (CONFIGURATION, keys B and D in the case of BASS V-AMP as well as keys D and E in the case of BASS V-AMP PRO). These operating modes function independently from the settings already selected on the unit itself (i.e. how the output signal of your BASS V-AMP/ BASS V-AMP PRO is taken). This way, the left and the right output signals can be used entirely differently.

The table on the following page explains in full detail how you can tap into the signal at the output of your BASS V-AMP/BASS V-AMP PRO with or without a speaker simulation/EQ. Additionally, the effects signal at the output does not necessarily have to be identical for both sides (see table 3.1). 3.1 Selecting an operating mode (CONFIGURATION) Your BASS V-AMP/BASS V-AMP PRO is set to studio 1 (S1) operating mode when it leaves the assembly plant. To change this setting, select the CONFIGURATION mode. Please press the B and D keys at the same time (BASS V-AMP) or D and E (BASS V-AMP PRO). By using the arrow keys, you select between different operating modes. To exit this mode, press TUNER once. Various operating modes are described on the following pages in greater detail.

To adjust the output level of your instrument, use a specific level control located at the beginning of the signal path. This way, it is possible to adjust the input sensitivity by +12/-6 dB (middle value = 0 dB): Please select the CONFIGURATION mode and adjust the desired sensitivity level by keeping the TAP key pressed and turning the GAIN control. A change in input gain has an effect on all presets. Therefore, use it with caution to allow for example an adjustment to instruments with strongly varying signal levels. 3.

2 Standard setup To use your BASS V-AMP/BASS V-AMP PRO at the practice room, connect the unit as described in fig. 1.4. and 2.3 of the included appendix.

Instead of a bass, you can of course connect other musical instruments. Connect your headphones to the PHONES connector. By using the FS112V footswitch delivered with your BASS V-AMP/BASS V-AMP PRO, you can alternate between the five presets contained in a preset bank, or you can power up the tuner.

Live modes L1 and L2 featured in figures 1.4, 1.5 and 2.4 are particularly well suited for more demanding live or practice room applications.



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By using a MIDI foot controller (fig. 1.4 and 2.

5), you can alternate between different presets, banks and amps, the tuner etc. An additional stereo signal can be fed into your BASS V-AMP/BASS V-AMP PRO at the aux in (see fig. 1.3 and 1.5). 2.3 BASS V-AMP connectors (side) The stereo output signal of your BASS V-AMP can be taken at the balanced LINE OUT connectors. This is the MIDI OUT/THRU connector of the BASS V-AMP. The connector is configured to MIDI Out at the assembly plant, but it can be reconfigured to MIDI Thru (see A). A MIDI foot pedal (e.

g. the BEHRINGER MIDI FOOT CONTROLLER FCB1010) can be connected to the MIDI IN connector. More on this subject in chapter 8.4. 8 3.

APPLICATION EXAMPLES/OPERATING MODES BASS V-AMP/BASS V-AMP PRO Operation mode BASS V-AMP OUTPUTS L OUTPUTS R BASS V-AMP PRO OUTPUTS L OUTPUTS R Studio 1 (S1) Stereo operation with the selected effects and speaker simulations Amp w/out FX + Cab Sim Amp, Cab Sim + FX Stereo operation with the selected effects and speaker simulations Amp w/out FX + Cab Sim Amp, Cab Sim + FX Studio 2 (S2) Studio 3 (S3) Amp, Cab Sim + FX DI Out (unprocessed direct signal) XLR/Phones: ULTRA-G active (digital Cab Sim out) Amp w/out FX Amp + FX Live 1 (L1) Stereo operation: Live EQ, Amp, Cab Sim and FX Bi-Am ping mode w/out Cabine t Simulation XLR/PHONES: ULTRA-G active HP: Live EQ, Amp, FX LP: w/out effect section Live 2 (L2) HP: Live EQ, Amp, FX Live 3 (L3) LP: without effects For Amp with Live EQ For Amp w/out Live EQ w/out Cab Sim with Cab Sim XLR/Phones: ULTRA-G active (digital Cab Sim out) Stereo: Amp, FX + Live EQ Tab. 3.1: Operating modes of the BASS V-AMP/BASS V-AMP PRO with application examples Naturally, your BASS V-AMP/BASS V-AMP PRO is in its best shape when its bass parts are immortalized on an analog or digital recording medium. Its advantages are most apparent when used in recording situations. Your BASS V-AMP/BASS V-AMP PRO gives you unsurpassed flexibility because you can simply take it with you into the control room and forget all about having to use speakers.

This way, you have the best control of the sound of your BASS V-AMP/BASS V-AMP PRO at all times. If you realize that you have to change the signal on the mixing console, you can work with the tone engineer on your sound so that the recording is done optimally, capturing your sound the way you want it. Simply put: no annoying back-and-forth trips between studio and control room. output is used to connect to the mixing console or the stage box (fig. 1.6 and 2.3). Connecting the BASS V-AMP PRO to a mixing console should be done via the ULTRA-G DI OUT output. The advantage of this application: You are ultra-flexible, since you can set up the necessary monitor volume/tone needed for the stage directly on the external bass amplifier, and at the same time utilize the various sound options of the BASS V-AMP/ BASS V-AMP PRO. When you use the R/DI output of the BASS V-AMP to control your mixing console, the front mix benefits from the unique sound achieved by the BASS V-AMP, which is optimized for P.

A. applications by virtue of utilizing the equalizer in the channel strip of the mixing console. In the case of the BASS V-AMP, selecting studio 3 (S3) and connecting Line Out R with Aux In L lets you bring the direct signal in addition to the output signal by using the aux control. When you connect line out L with aux in R (plug plugged in half-way) in S3 mode, you can add the direct signal to the effect signal. Avoid connecting line out L to aux in L as well as line out R and aux in R, as feedback may occur. 3.3 Recording situation Depending on the recording situation and the desired effect, all studio modes come into play (S1, S2 und S3). While S1 carries the complete signal (including all amps, speakers and effects simulations) in stereo, S2 produces two mono signals, whereby the right output contains the signals with all the simulations, while the left output without the effects. A typical home recording setup is shown in fig. 1.

3. S3 serves the purpose of recording a fully unprocessed signal (right output) and still hear it with all the effects applied (left output). Since the BASS V-AMP PRO has an additional PRE DSP INSERT, this operating mode (known as "Re-Amping") is possible in every output mode (see fig. 2.5 and 2.

6). Figure 2.6 describes the possibility of recording the direct signal via an analog sound card input and simultaneously recording the completely processed signal. Should the sound of your mix require reworking, you don't have to bring the signal in again, since the direct signal is still available. In the case of the BASS V-AMP PRO, you can directly feed a digital mixing console (our BEHRINGER DDX3216 in this illustration).

The unit can be externally synchronized via worldclock (fig. 2.5). 4. PRESETS OF THE BASS V-AMP/ BASS V-AMP PRO The BASS V-AMP/BASS V-AMP PRO features 125 rewritable presets, divided into 25 banks. Therefore, there are five presets per preset bank. Each preset consists of a maximum of five "ingredients": the simulation of an amplifier (incl. GAIN, EQ and VOLUME settings), the loudspeaker simulation, a "pre-amp" effect (e.g. Denoiser, Auto Wah, Wah Wah), a "post-amp" multi effect (e.

g. stereo delay, modulation effect or a combination of both) and the compressor setting. An overview of all presets of your BASS V-AMP/ BASS V-AMP PRO is included with this user's manual. 3.4 Live setup with a connection to an external bass amplifier The BASS V-AMP/BASS V-AMP PRO is naturally in top form when it is used as a preamp in connection with an external bass amplifier. In the case of the BASS V-AMP, it is advisable to connect your bass amp via the L/AMP OUT output, while the R/DI OUT 4. PRESETS OF THE BASS V-AMP/BASS V-AMP PRO 9 BASS V-AMP/BASS V-AMP PRO 4.1 Recalling presets The most recently used preset is automatically recalled each time you power the unit on. The following example in fig. 4.

1 shows the BASS V-AMP: preset D in the 25th bank was selected. In this case you can press the keys A, B, C or E to recall a different preset of the same preset bank. You can select a different preset bank by pressing either one of the two arrow keys. The display of the BASS V-AMP/BASS V-AMP PRO always shows which preset bank is selected. To recall a preset after selecting a different preset bank, press one of the A - E keys.

Which preset from the respective bank is currently active is always displayed in the key LED. preset by keeping the desired preset key pressed for roughly two seconds. For example, you can edit a preset located in preset bank five and location D and save it in bank six and location A. 4.4 Overriding edits/Restoring single factory presets You can of course undo an edit of a preset.

Let's say, you selected preset C and edited it (key LED is blinking), but then you want to revert to the previously saved configuration: Simply select a different preset.



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Each time you recall a different preset, unsaved edits from the current edit are lost. However, keeping both arrow keys pressed after editing for so long until "Pr" appears in the display recalls the factory preset that was originally at this location. To activate this factory preset, you still have to save it again by keeping the respective preset button for roughly two seconds. 4.5 Restoring all factory presets To restore all factory presets, do the following: keep keys D and E pressed and only then power up your BASS V-AMP/BASS V-AMP PRO. "CL" is shown in the display. Now, let go of the D and E keys and simultaneously press both arrow keys. This procedure overwrites all presets that you may have created and restores all factory presets. How to save your presets before restoring factory presets is explained under 8.

4.1. Fig. 4.1: Recalling presets 4.2 Editing presets Editing presets on your BASS V-AMP/BASS V-AMP PRO is simple and quick to do. You can for example recall a preset in order to modify it. To do so, select a desired amp model by turning the AMPS control to the desired amp model. The preset key LED flashes (for example, D) and signals that you have edited a preset. Now, modify the settings of the VOLUME, BASS, MID, TREBLE and GAIN controls. After having selected the desired effect by using the EFFECTS control, you can modify its part of the entire sound by using the EFFECTS MIX control. To get into the EDIT mode, press both arrow keys simultaneously. By using the keys B - E, you can activate the DRIVE, CABINETS, X-OVER and DENOISER functions respectively. You can then edit these functions by using the arrow keys, and the respective parameters will be shown in the display. To leave EDIT mode again, briefly press the TUNER key.

By turning the TREBLE control while the TAP key is pressed, you can lower or increase an additional filter in the upper frequency range (PRESENCE). This simulates the frequencydependant decoupling of tube amps. With the exception of Compressor und Auto Wah, there is a speed parameter present in all multieffects. Let's say you want to adjust respective effects according to the tempo of your playback. Tap the TAP key twice in the tempo of your playback and the tempo of the effect is automatically matched to the tempo of your musical piece.

5. AMP/SPEAKER SIMULATION The heart and soul of your BASS V-AMP/BASS V-AMP PRO are its amp/speaker simulations. 32 simulation models can enormously ease the work at your home recording studio, because you avoid having to mic an amp. With your BASS V-AMP/ BASS V-AMP PRO, you are in the position to simply choose an amp that once wrote history, regardless of whether we are talking funk, blues, heavy metal or any other musical style. Moreover, you can freely modify the sound of the amp of your choosing and virtually wire it up to one of the 23 simulated speaker types ("cabinets"). Last but not least, you can enable a digital effect and a preferred degree of compression for your virtual amp (see chapter 4, "BASS V-AMP/BASS V-AMP PRO PRESETS"). Powering up your BASS V-AMP/BASS V-AMP PRO automatically loads the preset you used most recently. The LED circle surrounding the AMPS control shows which amp is currently selected: its respective LED is on. By turning the control, you can select a different amp. To change the basic parameters of the sound signal, use the VOLUME, BASS, MID, TREBLE and GAIN controls.

@@@How to save your changes is described in chapter 4. @@@@Then, you can save your 10 5. @@GOLD PANEL: This is a simulation of the Eden Traveller WT-300. This amp got its name from its developer: David Eden. @@@@It's a 15" speaker bass combo. @@@@He played for Beck and Tori Amos, among others. @@@@They use tubes to endow sound sources of all kinds with warmth. You can modify not only the sound of a bass, but can for example also run a vocal signal through you BASS V-AMP/BASS V-AMP PRO and polish it with the TUBE PREAMP. (This amp model is however best suited to instill more life into your bass guitar.) BRITISH '60s: A '68 Marshall Super Bass Plexi with Vintage EL-34 tubes was the role model for this simulation.

This amp has richer highs than the Marshall Major and sounds a bit like a fuzz box in the upper drive settings. This amp was a must in the '60s, particularly among UK bands. For example, it was used by John Entwistle (The Who), Noel Redding (The Jimi Hendrix Experience), Ron Wood (Jeff Beck Group) and Roger Glover (Deep Purple). BRITISH '70s: This virtual amp is based on the '69 Marshall Major. It's a classic among tube amps, and was used by Jack Bruce, among others.

The sound remains warm even in high drive settings, and gets a natural-sounding distortion characteristic, commonly found on old Cream records. BRITISH '80s: A sound coined in the '80s by musicians such as Trace Elliot or Mark King from Level 42. It's a very transparent and "wirily" sound that produced a lot of pressure. BRITISH POP: Created using the Vox AC-100 as a model. This amp was very "in" in the '60s because it had a memorable bass foundation while still leaving enough playroom in the highs.

The AC-100 had one very unique feature: the bass control worked the wrong way around! Turning the control to the left meant elevating the bass frequencies. Since this feature takes some time to get used to, we stuck to the more conventional solution, so that turning the control leftward lowers the bass frequencies and turning the control rightward elevates them. THUNDERBIRD: This simulation leans in the direction of smaller bass combos, similar to the BEHRINGER THUNDERBIRD BX108, hence the designation. The result is a full and warm sound that forgives minor playing impreciseness. MOSOUND: No other amp was used more often in Motown recordings as this one: the Ampeg B-15. The list of artists who used the typical B-15 bass sound looks like "Who's Who in Motown": The Supremes, The Four Tops, The Temptations, Marvin Gaye and Stevie Wonder to mention just a few. ROCK CLASSIC: A little quiz question: what's the name of the bass amp that has been manufactured for the past 30 years, without modifications, and is still as popular as ever? Correct: it is the Ampeg SVT Classic--a true power package. With its 300 Watts of raw tube power, this amp has been indispensable to rock bass players for years. Among others, Van Halen and the Rolling Stones use this amp. ROCK 2: Here we have the next stage in the development of the SVT CLASSIC: SVT PRO II.

With this model you can use a graphic EQ, which was a feature that made this amp well liked among hard rock and heavy metal bands. But pop-rock combos like those of Bruce Springsteen and David Lee Roth use it often. SILVER PANEL: This simulation reproduces the '67 Fender Bassman--it's an amp from the legendary "Silverface" series. Shortly after its introduction it became many a bass player's absolute darling.



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Paul McCartney used the Bassman on the later Beatles albums and also used it on his first solo album with the Wings. WHITE PANEL: What would the '80s be without their typical bass sound? This decade was hugely influenced by the sound of Gallien/Krueger bass amps. Some liked the authentic reproduction of transistor-powered amps; others yearned for the warmth, for that special something that was missing. Whatever the case: the Gallien/Krueger was in the early '80s, along with Trace Elliot, the amp of choice. Therefore, we chose the WHITE PANEL as the model for the 800RB, as it is popular even today, and used by the likes of Flea (Red Hot Chili Peppers). RED PANEL: The relatively young company by the name of SWR started creating the so-called "L.A.-Sound" in the mid '80s. The decisive factor was the combination of tubes (preamp) and transistors (power amp). Since then, the SWR amps belong surely to the most demanded amps on the market. The SWR SM-400 was used as a model for RED PANEL--it's a 500-Watt BRITISH CLASS A: Created by using the Vox AC 30 as a role model.

The roots of this amp go all the way back to the sixties. Back then, bass players demanded sound with a brilliant characteristic, which Vox engineers addressed by including "revolutionary" bass and treble controls. Brian May and U2 guitarist The Edge are the most famous users of this amp. MODERN HI GAIN: In this case, sound controls take a back seat to distortion, giving the extremely distorted sound more strength. The sound of MODERN HI GAIN is ideal for grunge guitarists, but also finds its appeal among the guitarists such as Steve Vai and Joe Satriani.

Steve Lukather, Nuno Bettencourt, Steve Vai and others made the Soldano sound famous. When using a Gibson Les Paul, MODERN HI GAIN sounds at its best when the volume control on the guitar itself is somewhat suppressed. NUMETAL GAIN: This amp's role model was a 1994 Mesa Boogie Dual Rectifier Trem-O-Verb. Its modern, high-gain-oriented sound marks this amp, and it works very well when playing in a band. Sound control takes place post distortion, which makes a "post-treatment" of distorted sounds possible. The amp works optimally for heavy metal, but also for achieving Steve Lukather sounds. The most famous user of this amp is Dream Theater's guitarist John Petrucci. CUSTOM HI GAIN: This sound originates in the sound of a '69 50-Watt Marshall Plexi Pate modified by Jose Arrendondo. Arrendondo was Eddie Van Halen's guitar tech. The amp is characterized by its great mids and the ability to obtain the ultimate gain without blurring the sound.

Attention: addictive! ULTIMATE PLUS: Those to whom DRIVE V-AMP (see below) is not enough will find more gain than they could ever ask for. CRUNCH V-AMP: This amp is ideally suited for modern blues or jazz sounds: its sound is neither too low-key nor too intrusive. DRIVE V-AMP: This is a modern high gain lead amp. It produces a soft but still formidable sound with a lot of drive, therefore ideal for a lead guitar. The role model was the Mesa Boogie Mark III. 5. AMP/SPEAKER SIMULATION 11 BASS V-AMP/BASS V-AMP PRO BRIT. HI GAIN: Compare this model with a Marshall JCM 800. Even though the original caused a furry mostly due to its distorted sound, this model produces a similar effect even with moderate gain. You get excellent Steve Ray Vaughan/Michael Landau sounds.

When distorting, it is ideal for producing the old Gary Moore sound as well as heavy metal sound. 5.2 Speaker descriptions The sound of a bass combo depends a great deal on the speaker type and combination. We saw a lot of experimentation in this field in the past 50 years. The goal was to figure out which speakers are most suited for reproducing bass sounds and how the sound changes when you combine a particular speaker with other speaker types. Among other things, the character of a speaker is determined by its power rating, impedance, sound pressure level and its size. Also, never underestimate the importance of the material(s) used to build it. Over the years, using a 15" speaker together with a 4 x 10" speaker became standard-issue for electric bass applications. This combination produced a healthy bass foundation and at the same time ensured perceptible highs. The sound was also balanced and not too strained, which was often the case with 15" speakers used alone.

Nowadays, in bass cabinets you can find almost all speaker sizes you can think of: 8", 10", 12", 15" or 18". Even HF drivers are no longer a rarity in bass cabinets. When you select an amp simulation, a matching speaker simulation is automatically activated as well (see table 5.1). Otherwise, the authenticity of the sound could be jeopardized, particularly when you use headphones. Of course, you can alter these settings depending on personal preferences. A list of speaker/cabinet simulations can be found in the following section. Amp # Am ps 1 - 16 (w hite) BRITISH '60s BRITISH '70s BRITISH '80s BRITISH POP THUNDERBIRD MOSOUND ROCK CLA SSIC ROCK 2 SILV ER PA NEL WHITE PA NEL RED PA NEL GOLD PA NEL CA LIFORNIA N JA ZZ TONE BOTTOM END TUBE PREA MP Am ps 17 - 32 (gr e y) BRITISH CLA SS A MODERN HI GA IN NUMETA L GA IN CUSTOM HI GA IN ULTIMA TE PLUS CRUNCH V -A MP DRIV E V -A MP BRIT. HIGH GA IN PIEZO SIM. MIC.

SIM. MA GNETIC EQ PIEZO EQ BLA CK TWIN ORGA N CLA SSIC BRITISH CLA SSIC CLA SSIC CLEA N PREA MP BY PA SS Cabine t s im ulation (de fault s e tting) 68 Marshall 4x12" 68 Marshall 4x12" Trace Elliot 4x10" Voc AC100 2x15" 1x8" Tweed Ampeg B15 1x15" Closed Back Comb o Ampeg SVT 8x 10" '79 Ampeg SVT 8x 10" '79 Fender Bassman 2x15" with JBLs 6x10" SW R G oliath Senior 6x10" SW R G oliath Senior Ampeg 4x10" Mes a/Boogie 2x15" Ampeg SVT 18E, 1x 18" No c ab inet simulation Cabine t s im ulation (de fault s e tting) 2x12" Twin Comb o 4x12" V-AMP Custom 4x 12" Vintage 30 4x12" '78 Std. 4x12" V-AMP Custom 4x12" '78 Std. 4x 12" Vintage 30 4x12" '78 Std. No c ab inet simulation No c ab inet simulation No c ab inet simulation No c ab inet simulation No c ab inet simulation No c ab inet simulation No c ab inet simulation No c ab inet simulation No c ab inet simulation No c ab inet simulation Cab # 6 6 2 9 16 7 1 1 11 3 3 4 10 14 Cab # 18 23 20 21 23 21 20 21 18 12 21 19 - PIEZO SIM: Simulates a piezo pick up. This way, sound with an acoustic character is created. Electric guitars get this acoustic touch, but without the feedback typical for acoustic instruments. MIC SIM: A guitar with steel strings miked with a dynamic microphone is simulated here. While piezo pickups have the tendency to make the sound rather hard, using a mic makes the sound much more evened-out. Of course, the feedback typical for miking acoustic instruments is no longer an issue. MAGNETIC EQ: Magnetic pick ups are very common in western guitars because they can easily be mounted into the instrument's cavity.



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However, the sound produced is not so clear as with piezo systems or with mics, because only the vibrations of the strings are captured in the signal. This amp model corrects the tone quality of a magnetic pick up system and gives it an acoustic character. A discreet ambience effect lets your instrument sound more "natural".

PIEZO EQ: The sound character of the instrument is presented a bit more harshly. The EQ corrects the sound so that the end result sounds like it was directly recorded using a mic. **BLACK TWIN:** A Fender Blackface Twin from the year 1965 was the role model used for this simulation. In the '60s, this amp was used by jazz, country and even rock musicians. Its appeal was in that it was exceptionally loud, so it was primarily used in live situations.

You can drive your Blackface Twin extremely loud, but the distortion remains moderate even as you increase the volume. Try using it with the sound of a Rhodes electric piano sound or another electric piano. **ORGAN CLASSIC:** Here we have a simulation of a Leslie 760 amp that strongly influenced the classical Hammond sound. During the analysis of this system, we noticed distortions that partly spring from the organ tube end amp and partly from a Leslie. Both characteristics can be controlled with a gain control the same they would be controlled by using a Hammond volume pedal. This sound and the rotary cabinet effect make a Rhodes electric piano sound amazing, a clavinet sound absolutely cool, analog synth sounds (Moog) get even better, and an electric bass and even drum sounds get nicely elevated. You can dynamically steer the GAIN control via MIDI by using a foot controller board, such as the **BEHRINGER MIDI FOOT CONTROLLER FCBI010**. This way, you get even closer to the original sound. **BRITISH CLASSIC:** This amp model, created by leaning closely to a '59 Marshall Plexi 100-Watt amp, is particularly well suited for creating clean sounds. The amp was used by Jimi Hendrix, Eric Clapton and Jeff Beck.

This amp model is therefore located among the keyboard models because you can create the organ sound influenced by John Lord (Deep Purple). **CLASSIC CLEAN:** In the '80s, the chorus effect of a Roland JC-120 was the trademark of Buzzy Feiten (Dave Weckl Band guitarist). What makes this solid-state amp special is the brilliance of its sound, noticeable in every mix. It is also outstanding for the new wave sound of the '80s that's making a come-back. Not to forget its popularity with Fender Rhodes pianists live on the stage with a Yamaha CP70 or a Wurlitzer electric piano. Fender, Vox, Marshall, Mesa Boogie, Leslie, Roland, Motown, Ampeg, Gallien-Krueger, SWR, Eden as well as the names of musicians and music groups are registered trademarks of their respective owners and are in no way associated with BEHRINGER. 0 1 2 3 4 5 6 7 8 9 10 11 12 14 15 Amp # 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 13 Polytone A101, 1x15" Closed Back Comb o 8 Tab. 5.1: Assignment of cabinet simulations to amp models 12 5. AMP/SPEAKER SIMULATION BASS V-AMP/BASS V-AMP PRO Cabinet simulations 1 2 3 4 5 6 7 8 9 BYPASS (NO SPEAKER SIMULATION) AMPEG SVT 8 x 10" '97 TRACE ELLIOT 4 x 10" SWR GOLIATH 4 x 10" AMPEG 4 x 10" GALLIEN KRUEGER B120 68 MARSHALL 4 x 12" AMPEG B15 1 x 15" CLOSED BACK COMBO POLYTONE A101 1 x 15" CLOSED BACK COMBO VOX AC100 2 x 15" 3.

By pressing the TAP key in the beat of a music piece. Table 6.1 shows the effects parameters of your BASS V-AMP/BASS V-AMP PRO. To adapt beat-based effects to your musical program, press the TAP key twice in the beat of the music. 2.

By rotating the EFFECTS control while the TAP key is pressed. The multi-effects processor functions basically in stereo. This way, you can use stereo effects for recording purposes via the LINE OUT on the BASS V-AMP or via the ANALOG LINE OUTPUT on the BASS V-AMP PRO. You can also use a second amp to play in stereo (also see table 3.1).

The effects can be edited in three parameters: 1. By rotating the EFFECTS control. 10 MESA/BOOGIE 2 x 15" 11 FENDER BASSMAN 2 x 15" WITH JBLs 12 LESLIE 760 CABINET, 1 x 15" + HF-DRIVER 13 SWR 1 x 18" 14 AMPEG SVT 18E, 1 x 18" 15 SUNN COLISEUM 1 x 18" + 1 x 12" 16 1 x 8" TWEED Effect no. 6.1 Pre-amp effects PRE FX MIDI WAH P-FUNK'N AUTO WAH 17 1 x 12" MID 18 2 x 12" TWIN COMBO 19 2 x 12" V-AMP CUSTOM 20 4 x 12" VINTAGE 30 21 4 x 12" '78 STD. 22 4 x 12" OFF AXIS 23 4 x 12" V-AMP CUSTOM Tab. 5.2: Overview of cabinet simulations EFFECTS Controller 48 Depth Depth EFFECTS + TAP button Controller 49 Sensitivity Sensitivity MIDI 1 Controller 50 Base frequency Base frequency 0 1 2 Tab. 6.2: Pre FX MIDI WAH: The legendary wah wah was primarily made famous by Jimi Hedrix.

Explaining it would be surely more difficult than simply telling you to go listen Hendrix' Voodoo Chile. When the DRIVE function is activated, turning the EFFECTS control sets the wah wah. The LED circle around the control displays the position of the pedal. When no LED is on, the MIDI wah wah is not active. P-FUNK'N: This is our attempt at replicating the legendary MuTron III, and we succeeded! The MuTron III was a mixture out of Auto wah wah and filter effect. The most famous user of this effect is probably Bootsy Collins. The MuTron III had an up/down switch. Here, the effect resembles the MuTron in the down position. AUTO WAH: The American funk in the '70s proved that auto wah had many possible applications. Instead of regulating the filter frequency with your foot, our effect does this automatically, depending on the signal level.

In doing so, our effect is similar to the MuTron III in the up position. Wah wah is not available when auto wah or P-Funk'n are being used. 5.3 Denoiser and compressor DENOISER: A Denoiser is used to remove or minimize noise or other interference sounds. Such noise becomes particularly apparent during pauses.

The time-proven BEHRINGER denoiser removes or reduces such noise very effectively. A dynamic low-pass filter eliminates the noise present in the signal, while the integrated expander suppresses noise during pauses. Concerning this dynamic filter you can adjust frequency range and sensitivity, while the expander adjusts both the threshold and the time parameter. The BASS V-AMP/BASS V-AMP PRO's denoiser can be used independently from the integrated multieffects processor. See chapter 2.

I (E) for information about using the denoiser. COMPRESSOR: A compressor is used to elevate low-level signals, whereas loud parts are lowered if needed. Letting the compressor kick in strongly (done by turning the EFFECTS control clockwise) tightens the entire dynamic of the signal. This dynamic effect is the one that is most used in a connection with an electric bass. On the other hand, a limiter cuts off the signal above a set threshold to prevent distortion. BASS V-AMP/BASS V-AMP PRO's compressor can always be activated independently from the integrated multi-effects processor.



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6.2 (OVER)DRIVE simulations Our overdrive simulations offer you a selection of classic stomp box effects. Just like with the originals, you can set up drive, tone and boost (see B). The split function () lets you set up an independent crossover (pre distortion pedal).

This crossover lets the high frequencies pass through without distortion. (left position = off (bypass)/left to right: 41 - 600 Hz). The illustration displays the frequency range. 6. EFFECTS PROCESSOR The integrated multi-effects processor is a distinctive feature of your BASS V-AMP/BASS V-AMP PRO. This effects module offers you 16 different groups of first-class effects, such as chorus, flanger, stereo delay, rotary cab., synth as well as various combination effects. Additionally, you can use an extra wah wah effect via the MIDI function. This can be optimized by using a MIDI foot controller with an expression pedal, for example the BEHRINGER MIDI FOOT CONTROLLER FCB1010. 6.

EFFECTS PROCESSOR 13 BASS V-AMP/BASS V-AMP PRO Effect no. POST FX EFFECTS Controller 40 EFFECTS + TAP button Controller 41 Flanger Mix Chorus Mix Feedback Feedback Decay Decay V ow el Sensitivity Balance Feedback Speed/Depth Speed/Depth Speed/Depth V ariation V ariation TAP button Controller 46 MIDI 1 Controller 42 MIDI 2 Controller 43 MIDI 3 Controller 44 MIDI 4 Controller 45 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 V CF + FLA NGER DELA Y + CHORUS STEREO DELA Y DELA Y / LOOP REVERB A MBIENCE V OICE BOX ULTRA BA SS ROTA RY CA B. PHA SER FLA NGER CHORUS STEREO CHORUS SY NTH MIDI SY NTH V CF Mix Delay Mix Delay Mix Delay Mix Reverb Mix A mbience Mix SubMix Mix Mix Mix Mix Mix Synth Mix Synth Mix V CF Speed Delay Time Delay Time Delay Time Speed Speed Speed - Speed/Depth Feedback Damping Size Pedal Split Frequency Feedback LP Intensity Intensity Intensity - Flanger Feedback Feedback LP Feedback LP Diff usion Stereo Spread Interval - V CF Frequency Speed/Depth Key Reverb V CF Q Delay Time Delay Time - Tab. 6.1: Post FX and MIDI controller BOTTOM END BRITISH CLASSIC CLASSIC 145Hz 121Hz 101Hz 84Hz 70Hz 58Hz 49Hz 41Hz SHIFT [TONE] 174Hz 209Hz JAZZ TONE ORGAN CLASSIC CALIFORNIAN 251Hz BLACK TWIN GOLD PANEL PIEZO EQ 301Hz RED PANEL MAGNETIC EQ 362Hz WHITE PANEL MIC SIM.

SILVER416Hz PANEL PIEZO SIM. ACOUSTIC You can for example use this loop as a foundation for your melody and improvise around it. To record this sequence via MIDI, send the respective MIDI controller (see chapter 10). When you use this function without MIDI, the delay can last a maximum of 1023 msec. REVERB: The reverb is still the most important effect in a mixdown or during a live event.

A reverb is used to add ambience to an otherwise "dry" sound. AMBIENCE: This effect simulates a room without reflexions. 470Hz ROCK BRIT. HI 531Hz DEEP [SPLIT] 600Hz 6.3.2 Modulation effects Fig. 6.1: SPLIT steps PHASER: The phaser functions according to the principle that a second, phase-shifted signal is added to the original signal. This way, the signal seems thicker and livelier. This effect was originally used for guitar sounds and keyboards.

In the '70s, it started being used for other instruments as well (e. g. electric piano and electric bass). FLANGER: A flanger modulates the tone pitch of a signal upwards and downwards at a constant tempo. (STEREO) CHORUS: This effect subtly detunes the original signal. This way, a pleasant effect is created in combination with a tone pitch variation. This effect is particularly well-suited to lend a warm characteristic to the bass sound. Additionally, when "popping" occurs, it can make the tone sound less intrusive and harsh. 6.3 Post-amp effects The post-amp effects described in the following paragraphs are located post amp and cabinet simulations in the signal chain.

An integrated crossover determines at what frequency the effects start working and regulates the bass information when the unit is used without effects. The cut-off frequency of this 18 dB/octave Butterworth crossover is regulated in EDIT mode under X-OVER. The display shows the frequency divided by factor 10. Adjustments are made by using the bank UP/DOWN keys. If the display shows "-", the crossover is not activated and the complete signal is affected by the effects.

When, for example, "8" is shown in the display, this means that frequencies under 80 Hz remain unaffected by the effects. Volume balance between the high pass and the low pass can be adjusted when you are setting up the crossover settings by using the EFFECTS control (all the way to the left = low pass signal only, all the way to the right = high pass signal only). 6.3.3 Special effects VCF+FLANGER: The combination of filter and flanger effect.

VOICE BOX: This vocal simulation fades between various vowels (a/e, a/i, a/o etc.) by using a LFO (Low-Frequency Oscillator). You can control this effect via a MIDI foot controller. 6.3.1 Reverb and delay algorithms DELAY+CHORUS: This algorithm combines a delay and the ever-popular chorus effect. ST.

DELAY: A delay of the input signal. Different tempo settings enable you to produce interesting delay effects. This way, you can quickly create repetitions--particularly with "slapping"--that wouldn't even be possible without a delay.

DELAY/LOOP: This function allows you to jam along with your own signal. To do that, record with the delay/loop effect a short sequence (max. 15.36 sec.).

This sequence can be played back in an endless loop. ULTRABASS: A very low bass sound that lies an entire octave beneath the lowest bass frequency present in the mix is currently very popular. However, this sound can often only be created at the studio because most bass amplifiers have no subharmonic function. The ULTRABASS processor, which has also found home in various BEHRINGER bass amps, makes creating this effect a no-brainer. You will be amazed how ultra-low the sounds created with the ULTRABASS function are.

14 6. EFFECTS PROCESSOR BASS V-AMP/BASS V-AMP PRO 6.3.4 Virtual analog bass synth SYNTH: This effect gives you a rad three-voice synthie bass and has many parameters that are pre-configured in 9 variants and can be selected via TAP and EFFECT. The TAP key can be used to control the envelope (ADSR) of the synthie sounds (short tap = short tone, slow tapping = long tone).

Additionally, there is an "intelligent" envelope follower based on key and interval, whereas the VCO 1 (Voltage Controlled Oscillator) is set up for specific intervals, and the BASS V-AMP/BASS V-AMP PRO produces bass overtones that match the particular key. The EFFECTS control regulates the ratio between the bass synthie and the bass signal with all amp and cabinet combinations. MIDI SYNTH: The absolute highlight of your BASS V-AMP/ BASS V-AMP PRO is our MIDI SYNTH: With 40 parameters (already described), it offers you the best possible sound. You get a virtual analog MIDI synthesizer equipped with powerful features.



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