ULTRABASS BXL450/BXL900/BXL1800/BXL3000/BXL450A/BXL900A/BXL1800A/BXL3000A

GB

User's Manual

Version 1.1 December 2005



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IMPORTANT SAFETY PRECAUTIONS



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CAUTION: To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside; refer servicing to qualified personnel.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.



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.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.



DETAILED SAFETY INSTRUCTIONS:

1) Read these instructions.

2) Keep these instructions.

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.

8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

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.

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.

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.



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.

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FOREWORD



Dear Customer,

Welcome to the team of BEHRINGER users, and thank you very much for expressing your confidence in us by purchasing the BEHRINGER ULTRABASS.

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 you with an outstanding range of Bass Workstations that is at the forefront of what is technically possible and that offers you a vast variety of sound shaping options.

The task of designing our new ULTRABASS amps 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 o6f 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 high-quality 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 ULTRABASS Series 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,



Uli Behringer

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1. INTRODUCTION

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Congratulations! With this amplifier from our ULTRABASS Series you have purchased a state-of-the-art Bass Workstation that sets new standards. The ULTRABASS is an extremely powerful 2-channel bass amp equipped with genuine BUGERA™ speakers. It gives you loads of power and makes sure that you always have a few extra watts available whenever you need them. The other items on the list of features are no less impressive: The ULTRABASS has one clean and one distortion channel plus one equalizer with a ground-breaking "see-what-you-play" FBQ frequency display, which immediately shows you which bass frequency is assigned to which control—the perfect solution for sound tuning as you play. A musical limiter circuit protects the unit effectively against distortion, even at maximum volume. The connectors for headphones and CD players are ideal for practicing.

☞ **This user's manual will allow you to familiarize yourself with the control elements of your new ULTRABASS and learn all of its functions. After reading this manual, store it where you can easily find it for future reference.**

1.1 Before you get started

1.1.1 Shipment

The ULTRABASS was carefully packed at the assembly plant to ensure secure transport.

If the cardboard box is damaged, please inspect the ULTRABASS equipment immediately for physical damage.

☞ **Damaged equipment should NEVER be sent directly to us. Immediately inform the dealer from whom you acquired it as well as the transportation company from which you took delivery. Otherwise, all claims for replacement/repair may be rendered invalid.**

☞ **If the unit needs to be shipped, please always use the original packaging to avoid damage.**

☞ **Never let unsupervised children play with the device or with its packaging.**

☞ **Please dispose of all packaging materials in an environmentally-friendly fashion.**

1.1.2 Initial operation

Please make sure that your ULTRABASS is provided with sufficient ventilation, and never place it on other amplifiers or in the vicinity of a heater to avoid the risk of overheating.

☞ **Before plugging your ULTRABASS into a power socket, please make sure you have selected the correct voltage:**

The fuse retainer near the power cord connector has three triangular markings. Two of these triangles point in opposite directions. Your ULTRABASS is set up for the voltage indicated near these markings, and can be altered by turning the fuse mount by 180 degrees. **ATTENTION: This does not apply to export models built for 120 V, for example!**

☞ **If you use your ULTRABASS unit with a different voltage, you must change the fuses accordingly. The correct value of the fuses needed can be found in the section "SPECIFICATIONS".**

☞ **Faulty fuses must be replaced with fuses of appropriate rating, without exception! The correct value of the fuses needed can be found in the section "SPECIFICATIONS".**

Power is delivered via the cable that was delivered with the ULTRABASS. All mandatory safety precautions have been adhered to.

☞ **Please make sure that all of your equipment is grounded at all times. For your own protection, you should never tamper with the grounding of the cable or the unit itself. The unit shall always be connected to a mains socket outlet with a protective earthing connection.**

1.1.3 Online registration

Please, do remember to register your new BEHRINGER equipment right after your purchase by visiting www.behringer.com (alternatively www.behringer.de) and kindly read the terms and conditions of our warranty carefully.

Should your BEHRINGER product malfunction, our goal is to have it repaired as quickly as possible. To arrange for warranty service, please contact the retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may directly contact one of our subsidiaries. Corresponding contact information is included in the original equipment packaging (Global Contact Information/European Contact Information). Should your country not be listed, please contact the distributor nearest you. A list of distributors can be found in the support area of our website (www.behringer.com).

Registering your purchase and equipment with us helps us process your repair claims quicker and more efficiently.

Thank you for your cooperation!

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2. CONTROL ELEMENTS AND CONNECTIONS

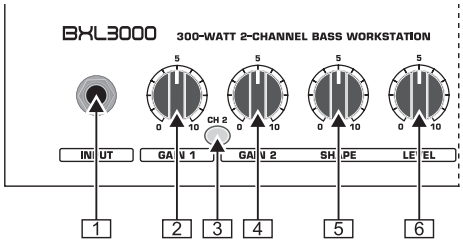


Fig. 2.1: The input section

1 *INPUT*. Connect your bass guitar to this input jack on the ULTRABASS (¼" TS jack).

2 The *GAIN 1* control determines the input gain on channel 1.

3 Use the *CH 2* button to switch over between the two channels. The *CH 2* button lights up when channel 2 has been activated. On the models BXL1800, BXL3000, BXL1800A and BXL3000A, the channels can also be selected using the foot switch shipped with the unit.

4 The *GAIN 2* control sets the degree of distortion of channel 2. The further the control is turned clockwise, the higher the degree of distortion.

5 *SHAPE* is a special filter for your personal sound design. It gives you numerous options for shaping your bass sound. Application examples of the shape function can be found in chapter 3.2.2.

☞ **The Shape filter is only effective on channel 2. The signal in channel 1 remains unprocessed.**

6 Use the *LEVEL* control to adjust the volume of channel 2. Use this control to achieve the balance in volume that you want between channels 1 and 2.

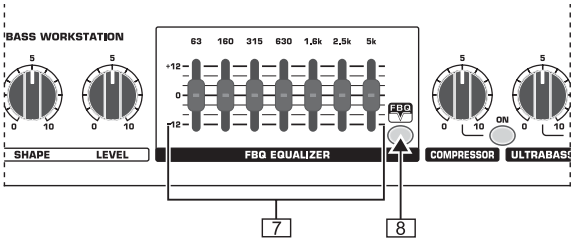


Fig. 2.2: The FBQ EQUALIZER

7 The *FBQ EQUALIZER* has 7 slide controls (BXL450 and BXL450A: 5 slide controls), one for each frequency band. The maximum boost/cut is 12 dB.

8 The *FBQ* switch activates the FBQ spectrum analyzer. The control LEDs, which are identical in brightness when FBQ is off, now show the energy content of each frequency band by lighting up with varying degrees of brightness. The equalizer function is always active, irrespective of the FBQ function. (For details on the FBQ function see chapter 3.2.1.)

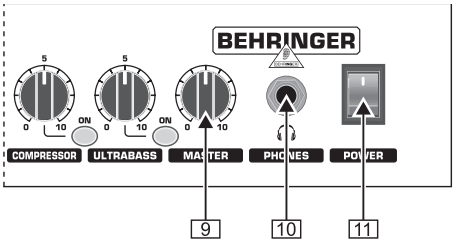


Fig. 2.3: The master section

9 Use the *MASTER* control to set the overall volume.

10 The *PHONES* jack (¼" TRS jack) is for connecting a pair of headphones. You can use headphones from the BEHRINGER HP Series. This connector, when in use, mutes the built-in bass speaker.

11 The *POWER* switch powers up your ULTRABASS. The POWER switch should always be in the "Off" position before you connect the ULTRABASS to the main power source.

☞ **Please note: The POWER switch does not fully disconnect the unit from the mains power cord plug or extention cord. To disconnect the unit from the main power source, pull out the main cord plug or appliance coupler. When installing the product, ensure the plug or appliance coupler is readily operable. Unplug the power cord when the unit is not used for prolonged periods of time.**

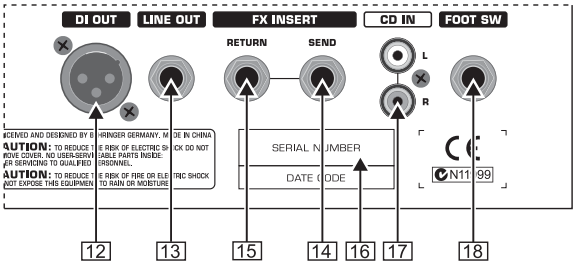


Fig. 2.4: The rear-panel connectors (BXL1800, BXL3000, BXL1800A and BXL3000A)

12 Use the balanced *DI OUT(PUT)* (XLR) to route the audio signal from the ULTRABASS to the input on a mixing console. The signal is taken from the point between the equalizer and the MASTER control.

13 As an alternative to taking the signal from output 12, the *LINE OUT* signal (¼" TS jack) can also be used.

14 + 15 *FX INSERT* (not available on BXL450 and BXL900 or on BXL450A and BXL900A): The ULTRABASS features a serial insert path, which allows you to connect external effects devices (e. g. wah-wah pedal, floor effects or 19" effects processors). Connect the *SEND* jack 14 to the input on the effects device. Connect the output on the effects device to the *RETURN* jack 15 on the ULTRABASS. In the signal path of the amplifier, the FX insertion point occurs before the Ultrabass processor (23).

☞ **The INSERT SEND can also be used as a parallel output, for example, to connect a tuner. As long as the RETURN jack is not in use, there will be no break in the internal signal path.**

16 *SERIAL NUMBER.*

17 The *CD IN* input (RCA) allows you to connect an external stereo signal. For instance, you can play along with your favorite songs played back from CD or MD, or with a drum computer.

☞ **The models BXL450, BXL900, BXL450A and BXL900A have the CD IN connector installed on the front panel.**

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18 The models BXL1800, BXL3000, BXL1800A and BXL3000A have a dual foot switch included. Connect the foot switch to the *FOOT SW(ITCH)* jack. Use the foot switch to select a channel (corresponds to the *CH 2* button 3) and to activate the Ultrabass function (corresponds to the *ON* button 24).

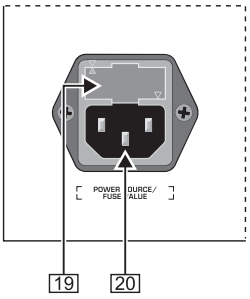


Fig. 2.5: Fuse holder and IEC receptacle (rear panel)

19 *FUSE RETAINER/VOLTAGE SELECTOR*. Please make sure that the voltage indicated by the voltage selector matches the local voltage before you connect the unit to the main power supply. Always replace blown fuses with fuses of the same type and rating. Some units feature a fuse retainer in which a selection between 230 V and 120 V is possible. Please be aware: When using your unit outside Europe and with 120 V, a fuse with a higher rating is required.

20 Power is supplied via an *IEC* connector. The matching cable is provided with the unit.

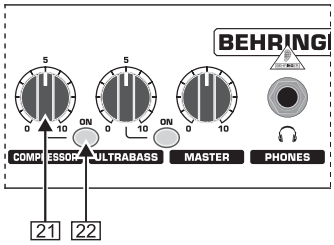


Fig. 2.6: COMPRESSOR function (only BXL1800, BXL3000, BXL1800A and BXL3000A)

21 The *COMPRESSOR* control governs the compression intensity (see chapter 3.2.4).

22 Use the *ON* switch to activate the compressor.

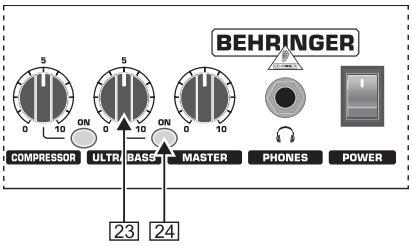


Fig. 2.7: ULTRABASS function (not available on BXL450 and BXL450A)

23 With the Ultrabass function enabled (button 24) you can use the *ULTRABASS* control to add ultra-low frequencies to your bass signal. The ULTRABASS effect is available for **both channels** (see chapter 3.2.3).

24 Press the *ON* button to switch on the ULTRABASS function. The LED in the button lights up. You can also control this effect using the foot switch supplied with the unit (except for BXL900 and BXL900A).

3. FIRST STEPS

3.1 Connect your bass and get started

We're sure you cannot wait to set up and connect your ULTRABASS amp and check out its sounds. So, let's get going!

- ▲ Connect your instrument to the input jack 1 before you switch on the unit. Use a standard instrument cable with ¼" TS connectors.
- ▲ Turn the MASTER control 9 fully to the left, then switch off the equalizer, compressor and Ultrabass function (buttons 8, 22 and 24) to start off with a neutral sound.
- ▲ Set the GAIN control to mid-travel position.
- ▲ Switch on the ULTRABASS using the POWER switch 11, then adjust the desired volume level using the MASTER control 9.

The ULTRABASS has two input channels to be selected with the channel selector 3. When channel 1 is active (button LED off), the GAIN 1 control 2 can be used to adjust the input sensitivity.

To distort sounds, use channel 2. On channel 2, you can also create an alternative sound: one that is louder than or shaped differently from the sound on channel 2. (For details about the Shape control, see chapter 3.2.) Use the GAIN 2 control 4 to adjust the input level of channel 2. This control also allows you to determine the amount of distortion. If the signal becomes too loud, you can use the LEVEL control 6 to cut back the volume and align it with the volume of channel 1. This way, you can avoid drastic level changes when switching channels.

3.2 Sound processing

The ULTRABASS offers a variety of features to modify your bass sound. These processing functions are described in this chapter.

3.2.1 The FBQ equalizer

The equalizer is a graphic 7-band EQ (BXL450 and BXL450A: 5-band) incorporating an FBQ spectrum analyzer. When a slide control is set to the zero position, the instrument signal remains unprocessed in the relevant frequency band.

- ▲ To raise the level of a specific frequency band, move its slide control upwards.
- ▲ To lower its volume, move the control downwards.

Each control has an LED which displays the level of the respective frequency band by lighting up with varying degrees of brightness. This feature helps you find the control(s) that you need for sound processing. Press the FBQ switch 8 to switch on the FBQ display. For example, if the sound is muddy or booming at 160 Hz, this is shown by a brightly lit LED in the corresponding control. Move the 160-Hz control down a bit (negative range) to eliminate the booming sound. Conversely, you can accentuate certain signal ranges that lack presence (LED lights up only faintly) by moving the relevant controls upwards.

☞ **You don't have to raise the volume of a frequency range to make it seem louder. Instead, you can lower the other frequency ranges by moving their slide controls downwards. This prevents the internal signal level from becoming too high and also gives you some valuable dynamics headroom.**

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3.2.2 The Shape function

The Shape function on your ULTRABASS provides a revolutionary type of filter that you can use to modify your bass sound completely. The filter allows you to shape your sound – which is a must for bass players today. Extreme filter settings will give your bass sound more punch, for example:

You want to play a live bass solo but the sound doesn't cut through. The solo should stand out, rather than being drowned. First, set up a solid basic sound on channel 1. Then, create a very distinctive solo sound on channel 2 using the Shape filter. Since the Shape filter is only effective on channel 2, you can change sounds quickly and easily before you begin your solo.

The Shape filter is worth its weight in gold when you are using two different bass guitars. Maybe you want to change from one instrument to another with a completely different sound. During gigs you often lack the time to set up your amp for a different instrument. Because you can use channel 1 for one instrument and channel 2, with its Shape filter, for another instrument, you'll be glad to have the ULTRABASS.

3.2.3 The Ultrabass function (not available on BXL450 and BXL450A)

In current music production, extremely low bass sounds that are one octave below the lowest available bass guitar frequency are quite popular. Often, you can only create this sound in studios, because most bass amplifiers have no sub-harmonics function. This is not true with the ULTRABASS. The Ultrabass processor gives you the ultimate tool to shape this contemporary sound.

You'll be amazed to hear how deep your bass can sound with the Ultrabass function. Extreme settings can be particularly interesting if you want to give your sound added sparkle in the treble range. By the way, if you already set the Shape filter to create punchy sounds, but feel that there's not enough power in the bass range, the sub-harmonics processor is there to help you. Even if the sound is still punchy, it will have much more depth.

On the models BXL1800, BXL3000, BXL1800A and BXL3000A, the Ultrabass function can easily be switched on and off via the foot switch supplied. This allows you to highlight certain passages exclusively.

3.2.4 The compressor (only BXL1800/BXL3000 and BXL1800A/BXL3000A)

A compressor is used to limit the dynamic range of a signal. Signal peaks are lowered and soft signals are raised in volume, thus reducing the difference between the highest and the lowest signal levels. The result is a much more powerful sound.

Some playing techniques, such as slapping, lead to high-level differences. In this case, a compressor can be used to make the low-level dead notes clearly audible, which gives the bass line even more groove. What is more, the sustain of long notes is extended.

- ▲ Use the ON switch [22] to activate the compressor.
- ▲ Turn the COMPRESSOR control [21] slowly to the right to raise the compression intensity.
- ▲ Press the ON switch to compare the compressed signal with the unprocessed one.

Compressors work best if provided with high input signals. If the signal level is low, the effect will be activated only with high settings. If so, enabling the compressor can lead to extreme level differences. If GAIN is high, the compressor comes in quite early. In this case, you don't need to turn up the COMPRESSOR control that far to achieve an effect. Experiment with it to find the best setting for your needs!

☞ **The compressor works independently of the built-in protective limiter, which is always active on all BXL models and protects the power stage from overloading and distortion.**

4. WIRING EXAMPLES

4.1 Setup for practicing with playbacks

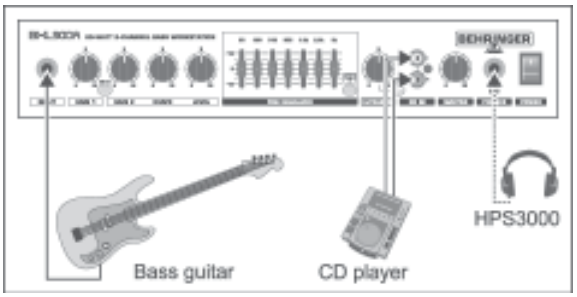


Fig. 4.1: Standard setup (here: BXL900A)

This setup is intended for rehearsals or practicing at home. Connect the ULTRABASS as shown in fig. 4.1. To feed in playbacks, connect a CD player to the CD input. Of course, you can also connect an MD player or a computer.

If you want to practice with headphones, just plug your headphones in the PHONES jack. The built-in loudspeaker will be muted automatically. Turn the MASTER control fully left before you connect the headphones.

4.2 Expanded setup for gigs and studio recordings (only BXL1800, BXL3000, BXL1800A and BXL3000A)

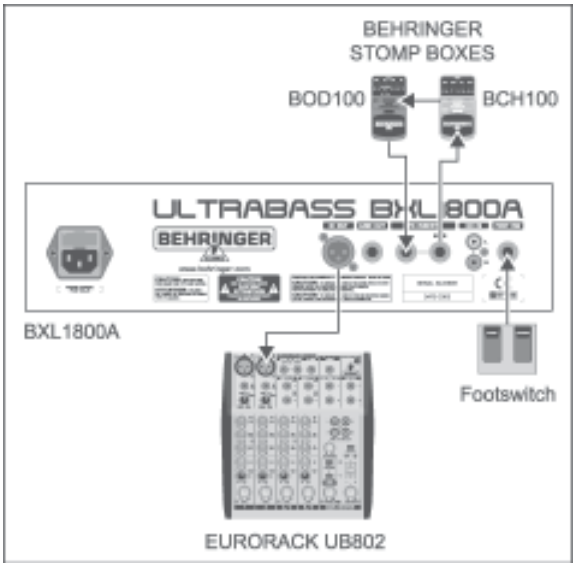


Fig. 4.2: Expanded setup (here: BXL1800A)

The following wiring scheme is recommended for live gigs or studio work. It builds on the standard setup.

Connect the foot switch supplied with the unit to the FOOT SWITCH jack on the ULTRABASS. Use the foot switch to switch channels and to activate the Ultrabass function, which is particularly useful when playing live.

To use an external effects device, connect the input of the effects unit to the FX INSERT SEND on the ULTRABASS, and the output of the effects device to the FX INSERT RETURN. Instead of the floor effects shown here, you can also use a wah-wah pedal or an external 19" effects unit.

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If you want the bass signal to go through a PA system during live gigs, you would normally need a DI box. (DI boxes process the signals for long cables and provide a higher output level at the mixing console). The ULTRABASS amps have a DI box already built in! Connect the balanced DI OUT directly to the mixing console input or to the multi-core cable leading to the console. Use a microphone cable (2-core shielded cable with XLR connectors).

Alternatively, you can use the LINE OUT (¼" TS jack) for short cables and mixing consoles with line-level inputs (e.g. for recording in your home studio without having to use a microphone). Of course, you can also use this output as an additional send path or to connect a tuner.

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4.3 The ULTRABASS as a slave with an external pre-amp

If you wish to use another bass preamp or modeling amp (e. g. BASS V-AMP or BASS V-AMP PRO), you can connect this amp to the FX INSERT RETURN jack. In this configuration, the ULTRABASS is used as a power amp only, and the two input channels are disabled.

5. INSTALLATION

5.1 Audio connections

Except for the headphones output, all ¼" jacks on the BEHRINGER ULTRABASS are ¼" TS connectors. The DI output is on a balanced XLR connector. The CD inputs are on RCA connectors.

☞ **Please keep in mind that your ULTRABASS should be installed and operated only by those who possess sufficient technical knowledge about its installation and operation. Everyone dealing with your ULTRABASS should be sufficiently grounded both during the installation as well as during actual usage. Failure to do so may cause undesirable or faulty operation due to electromagnetic discharges, etc.**

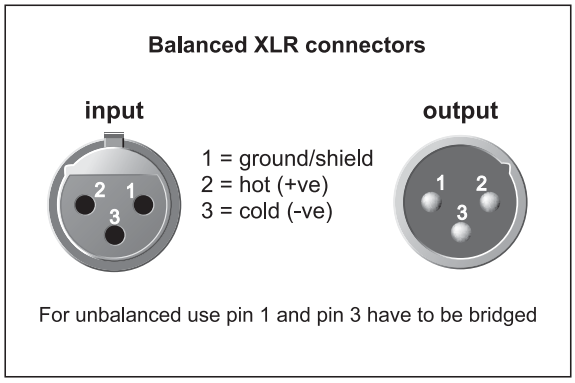


Fig. 5.1: XLR connections

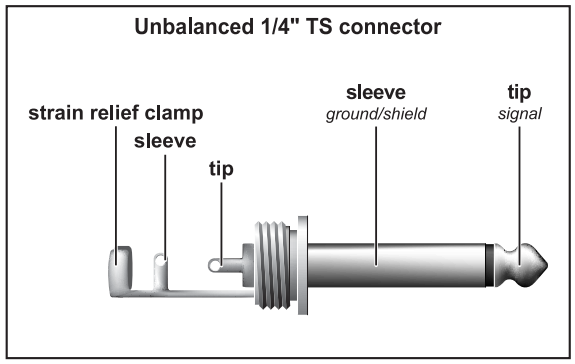


Fig. 5.2: ¼" TS connector

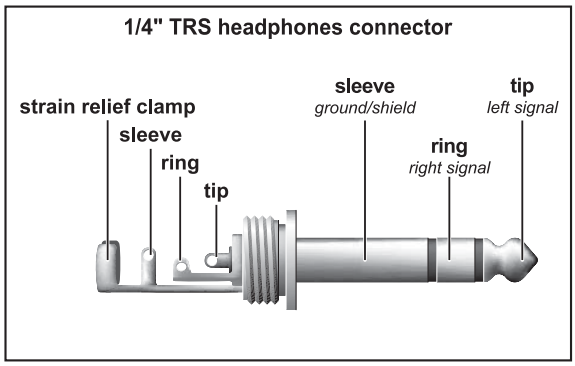


Fig. 5.3: ¼" stereo TRS connector for PHONES

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6. SPECIFICATIONS

	BXL450	BXL900	BXL1800	BXL3000	BXL450A	BXL900A	BXL1800A	BXL3000A
AUDIO INPUTS								
Instrument input	¼" TS				¼" TS			
Input impedance	250 kOhm				250 kOhm			
CD input	RCA				RCA			
Input impedance	40 kOhm				40 kOhm			
FX INSERT RETURN	-	¼" TS			-	¼" TS		
Input impedance	-	50 kOhm			-	50 kOhm		
AUDIO OUTPUTS								
Phones Out	¼" TRS stereo				¼" TRS stereo			
Direct Out	-	XLR			-	XLR		
Output impedance	-	500 Ohm			-	500 Ohm		
Line Out	-	¼" TS			-	¼" TS		
Output impedance	-	100 Ohm			-	100 Ohm		
FX INSERT SEND	-	¼" TS			-	¼" TS		
Output impedance	-	2.2 kOhm			-	2.2 kOhm		
SYSTEM SPECIFICATIONS								
Power amp output	45 W @ 4 Ohm	90 W @ 4 Ohm	180 W @ 4 Ohm	300 W @ 4 Ohm	45 W @ 4 Ohm	90 W @ 4 Ohm	180 W @ 4 Ohm	300 W @ 4 Ohm
LOUDSPEAKERS								
Type	10"	12"	12"	15"	10" aluminum-cone	12" aluminum-cone	12" aluminum-cone	15" aluminum-cone
Impedance	BUGERA™ Classic Tone Series				BUGERA™ Hard Attack Series			
Model	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm
Power handling	50 W	70 W	120 W	200 W	50 W	70 W	120 W	200 W
POWER SUPPLY								
Mains voltage	USA/Canada 120 V~, 60 Hz				USA/Canada 120 V~, 60 Hz			
	Europe/U.K./Australia 230 V~, 50 Hz				Europe/U.K./Australia 230 V~, 50 Hz			
	Japan 100 V~, 50 - 60 Hz				Japan 100 V~, 50 - 60 Hz			
	China/Korea 220 V~, 50 Hz				China/Korea 220 V~, 50 Hz			
	General export model 120/230 V~, 50 - 60 Hz				General export model 120/230 V~, 50 - 60 Hz			
Power consumption	max. 75 Watt	max. 150 Watt	max. 290 Watt	max. 350 Watt	max. 75 Watt	max. 150 Watt	max. 290 Watt	max. 350 Watt
Fuses 100 - 120 V~	**T 2.5 A H** 250 V	**T 3.15 A H** 250 V	**T 6.3 A H** 250 V	**T 6.3 A H** 250 V	**T 2.5 A H** 250 V	**T 3.15 A H** 250 V	**T 6.3 A H** 250 V	**T 6.3 A H** 250 V
Fuses 200 - 240 V~	**T 1.25 A H** 250 V	**T 1.6 A H** 250 V	**T 3.15 A H** 250 V	**T 3.15 A H** 250 V	**T 1.25 A H** 250 V	**T 1.6 A H** 250 V	**T 3.15 A H** 250 V	**T 3.15 A H** 250 V
Mains connection	Standard IEC receptacle				Standard IEC receptacle			
DIMENSIONS/WEIGHT								
Dimensions (H x W x D)	459 x 361 x 349 mm	529 x 412 x 412 mm	522 x 413 x 419 mm	608 x 466 x 418 mm	459 x 361 x 349 mm	529 x 412 x 412 mm	522 x 413 x 419 mm	608 x 466 x 418 mm
	18" x 14.2" x 13.7"	20.8" x 16.2" x 16.2"	20.6" x 16.3" x 16.5"	24" x 18,4" x 16.5"	18" x 14.2" x 13.7"	20.8" x 16.2" x 16.2"	20.6" x 16.3" x 16.5"	24" x 18.4" x 16.5"
Weight	13.90 kg	19.45 kg	21.55 kg	27.45 kg	13.90 kg	19.45 kg	21.55 kg	27.45 kg
	30.6 lbs	42.9 lbs	47.5 lbs	60.5 lbs	30.6 lbs	42.9 lbs	47.5 lbs	60.5 lbs

BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.

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7. WARRANTY

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§ 1 OTHER WARRANTY RIGHTS AND NATIONAL LAW

1. This warranty does not exclude or limit the buyer's statutory rights provided by national law, in particular, any such rights against the seller that arise from a legally effective purchase contract.

2. The warranty regulations mentioned herein are applicable unless they constitute an infringement of national warranty law.

§ 2 ONLINE REGISTRATION

Please do remember to register your new BEHRINGER equipment right after your purchase by visiting www.behringer.com (alternatively www.behringer.de) and kindly read the terms and conditions of our warranty carefully. Registering your purchase and equipment with us helps us process your repair claims quicker and more efficiently. Thank you for your cooperation!

§ 3 WARRANTY

1. BEHRINGER (BEHRINGER International GmbH including all BEHRINGER subsidiaries listed on the enclosed page, except BEHRINGER Japan) warrants the mechanical and electronic components of this product to be free of defects in material and workmanship for a period of one (1) year* from the original date of purchase, in accordance with the warranty regulations described below. If the product shows any defects within the specified warranty period that are not excluded from this warranty as described under § 5, BEHRINGER shall, at its discretion, either replace or repair the product using suitable new or reconditioned parts. In the case that other parts are used which constitute an improvement, BEHRINGER may, at its discretion, charge the customer for the additional cost of these parts.

2. If the warranty claim proves to be justified, the product will be returned to the user freight prepaid.

3. Warranty claims other than those indicated above are expressly excluded.

§ 4 RETURN AUTHORIZATION NUMBER

1. To obtain warranty service, the buyer (or his authorized dealer) must call BEHRINGER (see enclosed list) during normal business hours **BEFORE** returning the product. All inquiries must be accompanied by a description of the problem. BEHRINGER will then issue a return authorization number.

2. Subsequently, the product must be returned in its original shipping carton, together with the return authorization number to the address indicated by BEHRINGER.

3. Shipments without freight prepaid will not be accepted.

§ 5 WARRANTY REGULATIONS

1. Warranty services will be furnished only if the product is accompanied by a copy of the original retail dealer's invoice. Any product deemed eligible for repair or replacement under the terms of this warranty will be repaired or replaced.

2. If the product needs to be modified or adapted in order to comply with applicable technical or safety standards on a national or local level, in any country which is not the country for which the product was originally developed and manufactured, this modification/adaptation shall not be considered a defect in materials or workmanship. The warranty does not cover any such modification/adaptation, irrespective of whether it was carried out properly or not. Under the terms of this warranty, BEHRINGER shall not be held responsible for any cost resulting from such a modification/adaptation.

3. Free inspections and maintenance/repair work are expressly excluded from this warranty, in particular, if caused by improper handling of the product by the user. This also applies to defects caused by normal wear and tear, in particular, of faders, crossfaders, potentiometers, keys/buttons, tubes, guitar strings, illuminants and similar parts.

4. Damages/defects caused by the following conditions are not covered by this warranty:

- ▲ improper handling, neglect or failure to operate the unit in compliance with the instructions given in BEHRINGER user or service manuals.
- ▲ connection or operation of the unit in any way that does not comply with the technical or safety regulations applicable in the country where the product is used.
- ▲ damages/defects caused by force majeure or any other condition that is beyond the control of BEHRINGER.

5. Any repair or opening of the unit carried out by unauthorized personnel (user included) will void the warranty.

6. If an inspection of the product by BEHRINGER shows that the defect in question is not covered by the warranty, the inspection costs are payable by the customer.

7. Products which do not meet the terms of this warranty will be repaired exclusively at the buyer's expense. BEHRINGER will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within 6 weeks after notification, BEHRINGER will return the unit C.O.D. with a separate invoice for freight and packing. Such costs will also be invoiced separately when the buyer has sent in a written repair order.

§ 6 WARRANTY TRANSFERABILITY

This warranty is extended exclusively to the original buyer (customer of retail dealer) and is not transferable to anyone who may subsequently purchase this product. No other person (retail dealer, etc.) shall be entitled to give any warranty promise on behalf of BEHRINGER.

§ 7 CLAIM FOR DAMAGES

Failure of BEHRINGER to provide proper warranty service shall not entitle the buyer to claim (consequential) damages. In no event shall the liability of BEHRINGER exceed the invoiced value of the product.

* Customers in the European Union please contact BEHRINGER Germany Support for further details.

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