

# **EUROLIVE**

# **B212A/B215A**

## **User's manual**



Version 1.0 April 2006



[www.behringer.com](http://www.behringer.com)



# EUROLIVE B212A/B215A

## IMPORTANT SAFETY INSTRUCTIONS



**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.

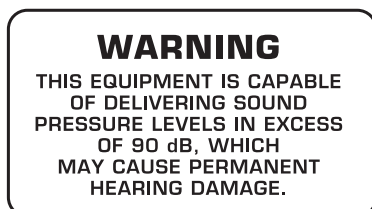
**WARNING:** To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.



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.



### Ventilation:

The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa rug, or similar surface that may block the ventilation openings: or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

### Check the floor:

Always check the floor for stability before you set up the speaker cabinet. Vibrating floors (e.g. elements/components on the stage) do not provide reliable support for speaker stacks. So, always set up your speakers on a solid and even support.

### Make sure that speaker cabinets are set up properly:

Set up your speaker cabinet at a distance to dance floors or other audience areas, so as to avoid that somebody can knock over a speaker stack.

## 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 tipping 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.

# EUROLIVE

**Processor-Controlled 450-Watt 2-Way PA Speaker System with 12"/15" Woofer and 1.25" Titanium Compression Driver**



- ▲ High-power 450-Watt 2-Way PA sound reinforcement speaker system for live and playback applications
- ▲ Ultra-compact lightweight system delivers excellent sound even at extreme sound pressure levels
- ▲ Integrated sound processor for ultimate system control and speaker protection
- ▲ Extremely powerful 12"/15" long-excursion driver provides incredibly deep bass and acoustic power
- ▲ State-of-the-art 1.25" titanium-diaphragm compression driver for exceptional high-frequency reproduction
- ▲ Ultra-wide dispersion, large-format exponential/conical horn
- ▲ Ultra low-noise Mic/Line Input with Volume control and CLIP LED
- ▲ Dedicated 2-band EQ for perfect sound adjustment
- ▲ Additional Line Out connector allows linking of additional speaker systems
- ▲ Versatile trapezoidal enclosure design allows different positioning:
  - Stand mounting with 35-mm pole socket
  - Tilts on its side for use as a floor monitor
- ▲ Ergonomically shaped handles for easy carrying and setup
- ▲ High-quality components and exceptionally rugged construction ensure long life
- ▲ Conceived and designed by BEHRINGER Germany

B212A/B215A

## FOREWORD



Dear customer,  
welcome to the team of EUROLIVE users, and thank you very much for expressing your confidence in us by purchasing these PA loudspeakers.

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 develop an outstanding PA system that offers a maximum in flexibility and performance

through its impressive sound character and outstanding features. The task of designing our new B212A/B215A 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 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 B212A/B215A 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


Thank you very much for expressing your confidence in BEHRINGER products by purchasing the EUROLIVE B212A/B215A. This active and extremely compact loudspeaker has been designed specifically for those applications in which space is a problem. The compact dimensions and the low weight, despite the high-performance power amp, as well as the option to mount the loudspeaker on a wall give this product maximum flexibility. The input section accepts both line-level or microphone-level sources. Additionally, the loudspeaker has a 2-band equalizer for accurate high and low-frequency control. All of these features make this loudspeaker a high-quality and highly reliable companion on the road.

### 1.1 Before you get started


#### 1.1.1 Shipment

Your B212A/B215A was carefully packed at the assembly plant to assure secure transport. 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 equipment 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 always use the original packaging to avoid damage due to storage or shipping.**

 **Never let unsupervised children play with the B212A/B215A or with its packaging.**

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

#### 1.1.2 Initial operation

Be sure that there is enough space around the unit for cooling. To avoid overheating, do not place the B212A/B215A on top of power amps or near radiators, etc.

 **Blown fuses must be replaced by fuses of the same type and rating. Please refer to the "SPECIFICATIONS" for further details.**

The mains connection is made using the enclosed power cord and a standard IEC receptacle. It meets all international safety certification requirements.

**Please make sure that all equipment is properly grounded at all times. For your own safety, never remove or disable the ground conductor of the unit or of the AC power cord.**

## 1.1.3 Online registration

Please do remember to register your new BEHRINGER equipment right after your purchase by visiting [www.behringer.com](http://www.behringer.com) (alternatively [www.behringer.de](http://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/support](http://www.behringer.com/support)).

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

Thank you for your cooperation!

## ATTENTION!

**This loudspeaker is capable of producing extreme volumes. Please keep in mind that high sound pressures do not only temporarily damage your sense of hearing, but can also cause permanent hearing damage. Be careful to select a suitable volume at all times.**

## 2. CONTROL ELEMENTS AND CONNECTIONS

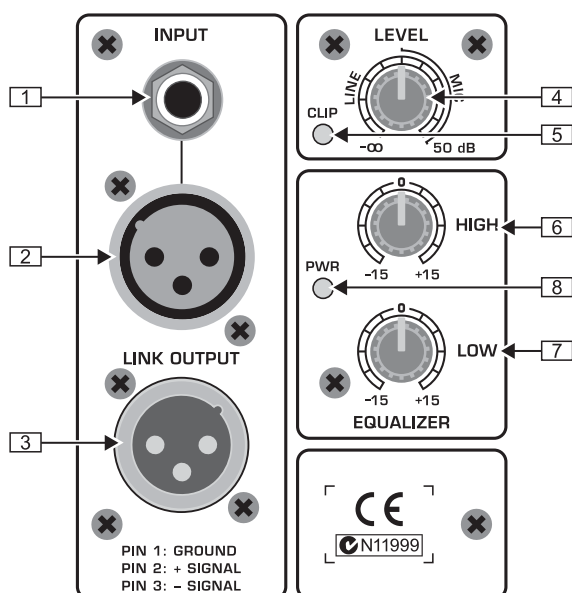


Fig. 2.1: Control elements and connections (B212A and B215A)

- 1 Use this 1/4" stereo jack to connect a signal source that has 1/4" output.
- 2 Use this XLR connector to connect a signal source that has XLR output.
- Always use either the XLR or the 1/4" jack input, and use the LEVEL control 4 to adapt the input sensitivity. Never use both inputs at the same time!**

- 3 The **LINK OUTPUT** is directly connected to the inputs of the B212A/B215A and carries the input signal with no processing applied. In this way, you can route the signal to the input of another device (for example, a second B212A/B215A).
- 4 To set the volume of the LINE or MIC signal, use the **LEVEL** control. The left half of the control range is for attenuating the LINE signal. The right half is for raising the level of the MIC signal.
- 5 The **CLIP** LED lights up when signal distortion occurs. Reduce the volume with the **LEVEL** control until the CLIP LED does not light up any more, or occasionally lights up at signal peaks.
- We would like to draw your attention to the fact that extremely loud sound levels may damage your hearing as well as your headphones/loudspeakers. Turn the LEVEL control fully to the left before you switch on the unit. Be careful to select a suitable volume at all times.**
- 6 The **HIGH** control adjusts the high-frequency range.
- 7 Use the **LOW** control to raise the level of the low-frequency range.
- 8 The **PWR** LED lights up when the loudspeaker is put into operation.

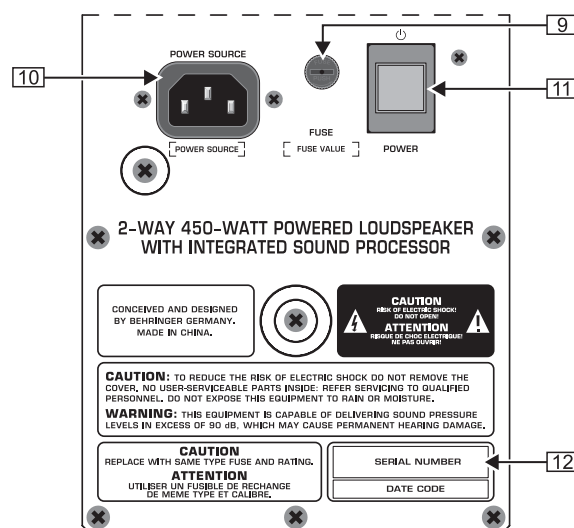



Fig. 2.2: Control elements and connections (B212A and B215A)

- 9 You can replace fuses at the **FUSE SWITCH** of the B212A/B215A. Always replace fuses with the same type. Please follow the instructions given in chapter 5 "SPECIFICATIONS."
- 10 The mains connection is established using a cable with an IEC mains connector. This cable is delivered with the B212A/B215A. To avoid ground-loop hum, loudspeakers and mixing consoles should be connected to the same power circuit.
- 11 **POWER**  
Press **POWER** to turn on your B212A/B215A.
- Attention: The POWER switch does not fully disconnect the unit from the mains. To disconnect the unit from the mains, pull out the main cable plug or appliance coupler. When installing the product, ensure the plug or appliance coupler is readily operable. Unplug the power cord completely when the unit is not used for prolonged periods of time.**
- 12 **SERIAL NUMBER**



# EUROLIVE B212A/B215A

## 3. APPLICATION EXAMPLES

 Turn the **LEVEL** control fully to the left before you switch on the unit with the **POWER** switch. Then, raise the volume to a suitable level.

### 3.1 Using a mixing console

A common way to use 2 B212A/B215A loudspeakers is with a mixing console. In this case, connect each of the main outputs that are on the mixing console to a B212A/B215A loudspeaker. The B212A/B215A includes XLR and 1/4" connectors. To avoid interference, use only XLR or 1/4" jack cables.

### 3.2 Using several B212A/B215A loudspeakers

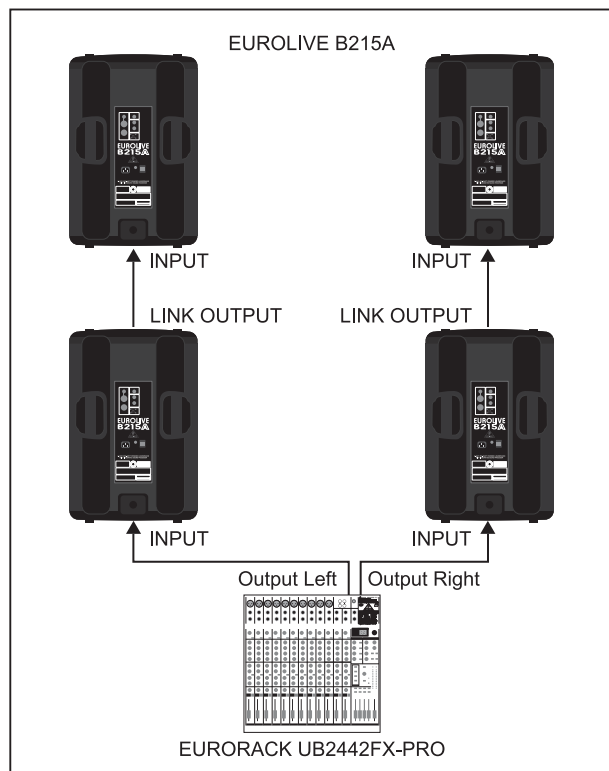


Fig. 3.1: Wiring several B212A/B215A loudspeakers using the **LINK OUTPUT** connector

For larger rooms, you can connect several B212A/B215A speakers using the **LINK OUTPUT** connector  (see fig. 3.1).

### 3.3 Direct connection of a stereo signal source

When you use two B212A/B215A loudspeakers, you can directly connect one stereo signal source, for example, a CD player. In this case, each of the speakers is connected to 1 signal-source output. (If necessary, use the appropriate adaptor.)

## 4. INSTALLATION

Both audio inputs of the BEHRINGER B212A/B215A and the **LINK OUTPUT** connector are fully balanced. To maximize interference compensation, try to establish balanced connections to other equipment, whenever possible.

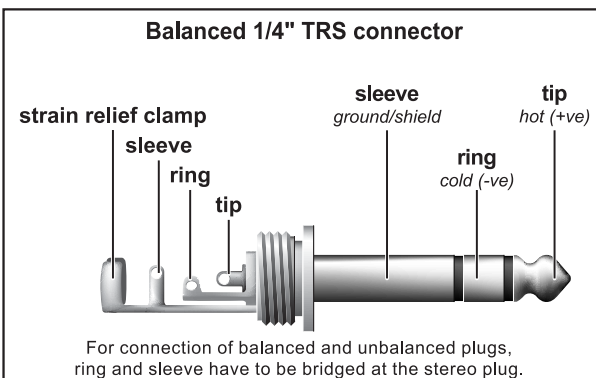


Fig. 4.1: 1/4" TRS connector

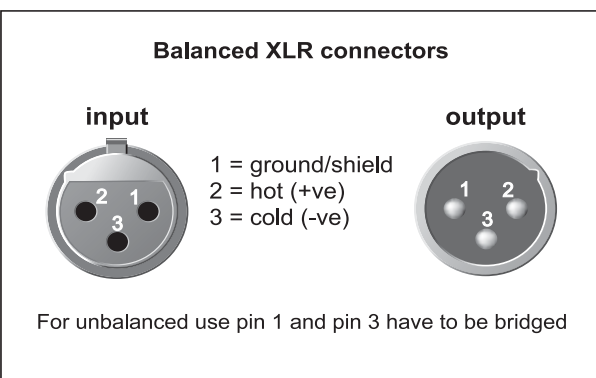



Fig. 4.2: XLR connector

 Make sure that only competent people install your B212A/B215A. They must be sufficiently earthed during and after the installation process. Otherwise, electrostatic discharges may negatively affect the operating characteristics of your equipment.

## 5. SPECIFICATIONS

	B212A	B215A
<b>SPEAKERS</b>		
High-performance woofer		
Diameter	12" (308 mm)	15" (387 mm)
Sensitivity (1 W @ 1 m)	95 dB (Full Space)	96 dB (Full Space)
Impedance	8 Ω	8 Ω
Power rating (peak program)	800 W	800 W
Tweeter compression driver		
Diameter	1.25" (34 mm)	1.25" (34 mm)
Sensitivity (1 W @ 1 m)	105 dB (Full Space)	105 dB (Full Space)
Impedance	8 Ω	8 Ω
Power rating (peak program)	60 W/2 kHz @ 12 dB/oct	60 W/2 kHz @ 12 dB/oct
<b>AMPLIFIER</b>		
Low-frequency amplifier		
Power (peak program)	400 W @ 8 Ω/0.1% THD	400 W @ 8 Ω/0.1% THD
High-frequency amplifier		
Power (peak program)	50 W @ 8 Ω/0.1% THD	50 W @ 8 Ω/0.1% THD
Limiter	opto-controlled	opto-controlled
<b>INPUT</b>		
XLR connector	(servo-balanced)	(servo-balanced)
Sensitivity	-40dB to +4 dB	-40dB to +4 dB
1/4" jack	(servo-balanced)	(servo-balanced)
Sensitivity	-40dB to +4 dB	-40dB to +4 dB
Input resistance	20 kΩ	20 kΩ
<b>LINK OUTPUT</b>		
XLR connector		
<b>SYSTEM DATA</b>		
Frequency range	65 Hz to 20 kHz	55 Hz to 20 kHz
Crossover frequency	2.4 kHz (12 dB)	1.9 kHz (12 dB)
Maximum sound pressure level	125 dB @ 1 m	126 dB @ 1 m
<b>EQUALIZER</b>		
HIGH	12 kHz/± 15 dB	12 kHz/± 15 dB
LOW	80 Hz/± 15 dB	80 Hz/± 15 dB
<b>POWER SUPPLY</b>		
Mains voltage	USA/Canada China/Korea Europe/U.K./Australia Japan General export model	120 V~, 60 Hz 220 V~, 50 Hz 230 V~, 50 Hz 100 V~, 50 - 60 Hz 120/230 V~, 50 - 60 Hz
Power consumption	300 W max.	
Fuse	100 - 120 V~: <b>T 5,0 A H 250 V</b> 220 - 240 V~: <b>T 2,5 A H 250 V</b>	
Mains connector	Standard IEC receptacle	
<b>DIMENSIONS/WEIGHT</b>		
Dimensions (H x W x D)	approx. 550 mm x 345 mm x 270 mm (approx. 22" x 14" x 11")	approx. 690 mm x 440 mm x 335 mm (approx. 27" x 17" x 13")
Weight	approx. 16.5 kg (approx. 36 lbs.)	approx. 23 kg (approx. 51 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.

## 6. WARRANTY

### § 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](http://www.behringer.com) (alternatively [www.behringer.de](http://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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