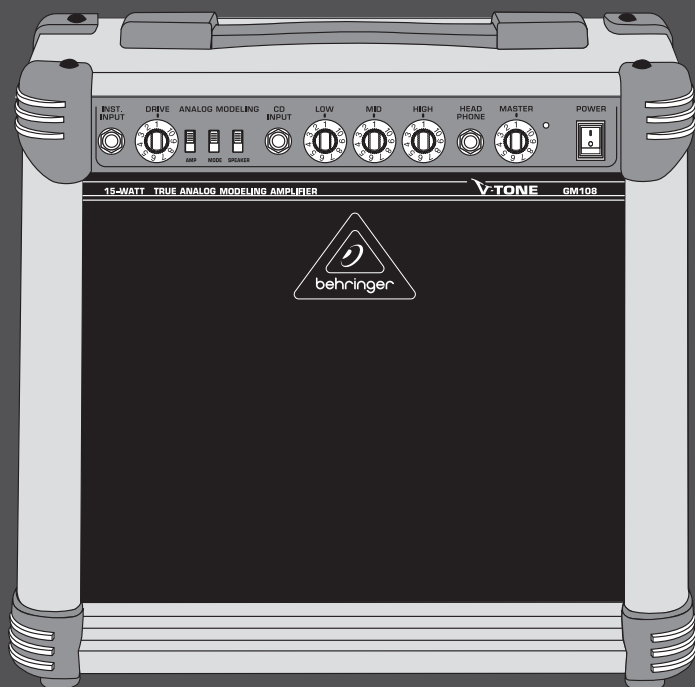




User Manual



V-TONE GM108

True Analog Modeling 15-Watt Guitar Amplifier with
Original 8" BUGERA Speaker

Table of Contents

Important Safety Instructions	3
Legal Disclaimer	3
Limited warranty	3
1. Introduction	4
1.1 Before you get started	4
2. Wiring Hints	4
3. Control Elements	5
3.1 Front panel	5
3.2 Rear panel	6
4. Basic Settings.....	6
5. Audio Connections	7
6. Specifications.....	8
7. Appendix	9

EN Important Safety Instructions



Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock.

Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



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.



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.



Caution

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 liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.



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. Repairs have to be performed by qualified service personnel.

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. Use only 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. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



TO BIND MUSIC GROUP BY ANY EXPRESS OR IMPLIED UNDERTAKING OR REPRESENTATION. THIS MANUAL IS COPYRIGHTED. NO PART OF THIS MANUAL MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING AND RECORDING OF ANY KIND, FOR ANY PURPOSE, WITHOUT THE EXPRESS WRITTEN PERMISSION OF MUSIC GROUP IP LTD.

ALL RIGHTS RESERVED.

© 2013 MUSIC Group IP Ltd.

Trident Chambers, Wickhams Cay, P.O. Box 146, Road Town, Tortola, British Virgin Islands

LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding MUSIC Group's Limited Warranty, please see complete details online at www.music-group.com/warranty.

LEGAL DISCLAIMER

TECHNICAL SPECIFICATIONS AND APPEARANCES ARE SUBJECT TO CHANGE WITHOUT NOTICE AND ACCURACY IS NOT GUARANTEED. BEHRINGER, KLARK TEKNIK, MIDAS, BUGERA, AND TURBOSOUND ARE PART OF THE MUSIC GROUP (MUSIC-GROUP.COM). ALL TRADEMARKS ARE THE PROPERTY OF THEIR RESPECTIVE OWNERS. MUSIC GROUP ACCEPTS NO LIABILITY FOR ANY LOSS WHICH MAY BE SUFFERED BY ANY PERSON WHO RELIES EITHER WHOLLY OR IN PART UPON ANY DESCRIPTION, PHOTOGRAPH OR STATEMENT CONTAINED HEREIN. COLORS AND SPECIFICATIONS MAY VARY FROM ACTUAL PRODUCT. MUSIC GROUP PRODUCTS ARE SOLD THROUGH AUTHORIZED FULLFILLERS AND RESELLERS ONLY. FULLFILLERS AND RESELLERS ARE NOT AGENTS OF MUSIC GROUP AND HAVE ABSOLUTELY NO AUTHORITY

1. Introduction

With the GM108 you've got your hands on a sizzling-hot guitar amp that will push your buttons in all the right places!

Simply cool, simply amazing.

Our one-of-a-kind "V-TONE Analog Modeling" gives you the hottest, most "in" guitar amp sounds on earth without placing unreasonable demands on the amount of background knowledge you need to have. The V-TONE GM108 has everything you need to create exactly the sound you want right at your fingertips.

Wanna change the sound of your amp in a second? Simply use one of the switches to select another amp or another speaker. And that's it! Combined with all the other settings that you can make, you can produce an entire array of different sounds. And all that without getting yelled at by the neighbors: just plug in your headphones and start playing! But beware:

- ♦ **High-volume music can damage your hearing and/or your headphones.** Turn the MASTER control to zero (all the way to the left) before you power up your amp. Always try to play at appropriate volume levels.

Absolute power and tube sound

Protecting your hearing aside, if you crank up your V-TONE GM108, it can cause quite a stir in your practice room or even on the stage ;-). How your amp is wired is shown in figures 2.1 and 2.2.

The GM108 with "V-TONE Analog Modeling" gives you a tube sound full of life that will simply blow you away. From crystal-clear all the way to ultra-distorted, anything and everything is possible.

In doing so, you remain in full control over the volume: you can create the same sound, regardless of whether you play at bedroom levels or if you play at full blast in your practice room.

Jam!

The V-TONE GM108 is simply an awesome practice amp because its CD input lets you jam to your favorite CDs—without upsetting your neighbors! If you want (or are told!) to keep it on the quiet side, all you need is some headphones. The BEHRINGER HPS3000, for example, is the perfect choice for exactly that!

This one is for keeps!

The electronic components of your V-TONE GM108 are well protected in its robust steel casing. The casing also has high-quality, environment-friendly MDF wood that is covered with high-resistance leatherette. Your GM108 won't leave you stranded even during tough stage use.

- ♦ **The purpose of this manual is to familiarize you with all the functions of your new amp so you put to good use all that the amp has to offer.** After you have read it through, keep it somewhere where you can later find it. It's of no use to you when it's lost ;-).

1.1 Before you get started

The GM108 was carefully packed at the factory to assure it will survive the rigors of the road. If the cardboard packaging looks like it's been through a lot, please inspect the contents and look for indications of damage. **In case your amp is damaged, DO NOT send it directly to us. Instead, first notify the store where you bought it as well as the carrier who made the delivery. Otherwise, you may void your warranty.**

Always make sure your V-TONE GM108 gets enough air flow and never put it near the heating or other heat-emitting equipment to avoid damage to the amp.

2. Wiring Hints

The following illustrations show you how to connect your guitar to the amp.

If you want to use stomp boxes or an effects pedal to experiment with different new sounds, simply connect the guitar directly to the input of your effects unit. Of course, you will need an additional cable for this purpose to connect the output of the effects unit to the amp input.

If you own an electronic tuner, you should hook it up pre effects unit to avoid interference.

- ♦ **Your amp's speaker is automatically muted when you insert a plug into the headphone connector 10.**

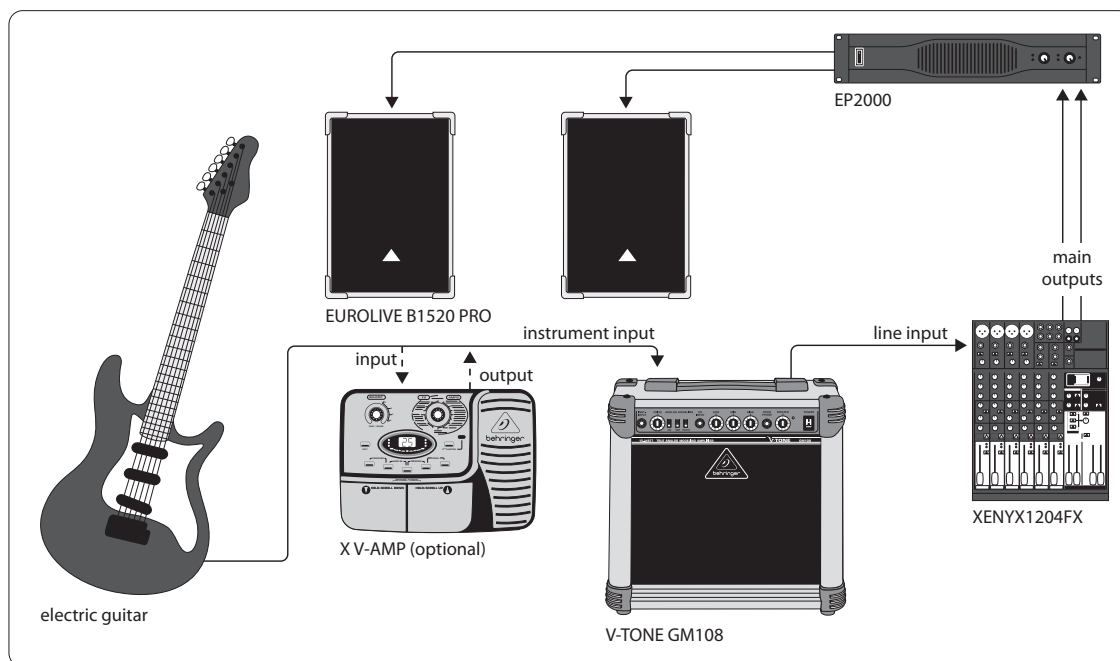


Fig. 2.1: V-TONE GM108 setup (example)

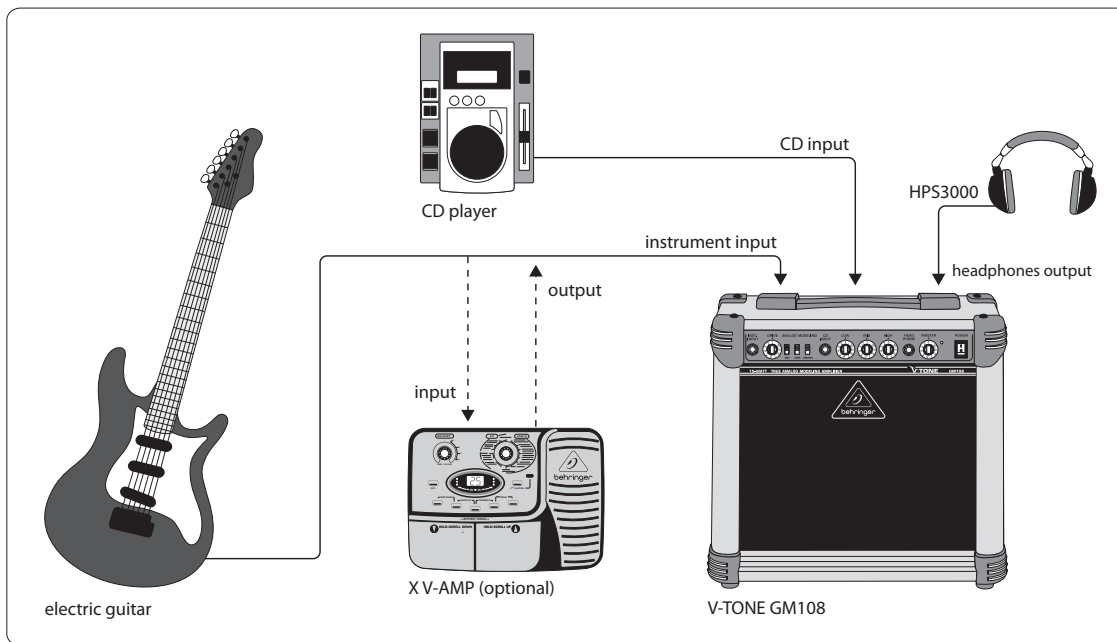


Fig. 2.2: Live setup (example)

Fig. 2.2 shows how your GM108 can be connected to a sound reinforcement system. This way, your amp can hold its turf even when used for performing live or with a loud band.

3. Control Elements

3.1 Front panel

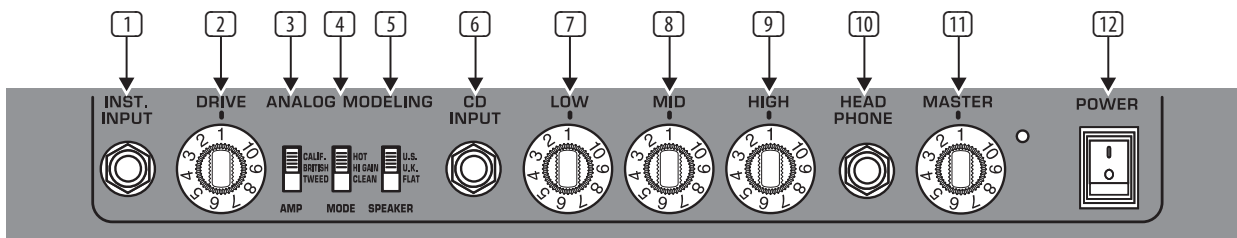


Fig. 3.1: Front panel control elements

- 1 Use the **INST(RUMENT) INPUT** connector to hook up your guitar. Use a standard 1/4" TS cable.
- 2 The **DRIVE** control regulates how much distortion you produce (depending on what amp, mode and speaker combination you select). The **DRIVE** control works in unison with the **MASTER** control. To some extent, the **DRIVE** control also affects the volume. To achieve the same volume level, turning **DRIVE** down means you have to somewhat increase **MASTER**. The more you crank up **DRIVE**, the louder it will get, so that you can finally adjust the volume using **MASTER**. This way, you can greatly vary your sound and still be in charge of volume.

For guitar pros: You can use the volume control of your guitar as a creative tool as well. The more you turn it up, the more distortion you end up with!

- 3 The **AMP** switch lets you decide which one of the three classically inspired guitar amp sounds you wish to recreate.

TWEED: Offers the legendary American clean sound, with dynamic bass and clear transparency.

BRITISH: "Aggressive" in the mids, tough and full of punch, that's how you can describe this setting. You get the classic rock sound of the most famous British amps.

CALIF(ORNIAN): Lead and hot rhythms sounds are what you get with this setting. This is the amp for that typical Nu Metal Californian sound.

- 4 Use the **MODE** switch to select one of the three settings (**CLEAN**, **HI GAIN** and **HOT**) for the basic sound you selected with the **AMP** switch. The following description gives you some rough idea about the many possibilities.

Experiment with **DRIVE** to come up with exactly the sound you are looking for!

CLEAN: as the name says, clean sound, without distortion.

HI GAIN: ranges from "crunchy" to strongly distorted sounds.

HOT: heavily distorted sound with endless sustain and an extra dollop of presence.

- 5 Use the **SPEAKER** switch to adjust yet another parameter: select one of the three outstanding loudspeaker simulations that best fits the amp you go with.

UK: 4 x 12" speaker in an enclosed casing.

US: 2 x 12" open-back speaker.

FLAT: specially tailored for the GM108.

- 6 Hook up the output of your CD player, tape deck or walkman to the **CD INPUT** connector. An MD player will do too. This way, you can play music CDs or even CDs accompanying guitar-playing books and practice at the same time. Of course, you can do the same using your stereo, but then you couldn't hear both signals simultaneously via your headphones!

The CD INPUT comes as a standard ¼" TRS stereo jack connector. If your CD player features RCA outputs, then you'll need an adapter or an adapter cable. You can get both at most audio stores. Fig. 5.3 in chapter 5 shows you what such an adapter looks like. You can also use a mono cable (fig. 5.4) without damaging the amp or your CD player.

- 7 Wanna have more bass? Then crank **LOW** all the way up.

- 8 The **MID** control is used to lower or increase mid frequencies.

- ♦ If you are playing alone, lower these frequencies relative to bass/highs to get a cool sound. When you're playing in a band, increase these frequencies relative to bass/highs to cut through. Just keep on tweaking your sound until you get it right!

- 9 The **HIGH** control regulates high frequencies. Use HIGH to get your guitar to sound "sharper".

- 10 Hook up your headphones using the **HEADPHONE** connector. Your amp's loudspeaker is automatically muted as soon as your headphones are connected.

- ♦ Some headphones can't handle extremely high volumes without beginning to distort. Turn the **LEVEL** control somewhat down until you notice the distortion is gone.

- 11 The **MASTER** control governs the overall volume of your V-TONE GM108. MASTER should always be at zero (all the way to the left) whenever you hit POWER or when you unplug the cable out of your guitar or your amp. Otherwise, loud crackling noise can occur, and they are good for neither your amp nor your ears.

- 12 Use **POWER** to power up your GM108. You should always make sure that the POWER switch is in the "Off" position when initially connecting the unit to the mains.

- ♦ Please take note: Merely switching the unit off does not mean that it is fully disconnected from the mains. When not using the unit for prolonged periods of time, please unplug the unit's power cord from the power outlet.

3.2 Rear panel

- 13 **SERIAL NUMBER.** Go to behringer.com and register your purchase online.

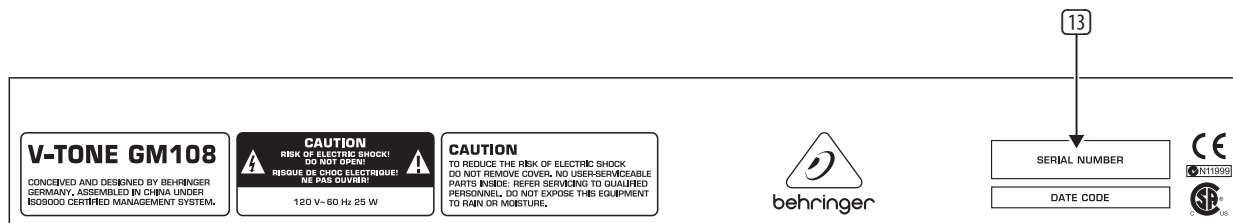
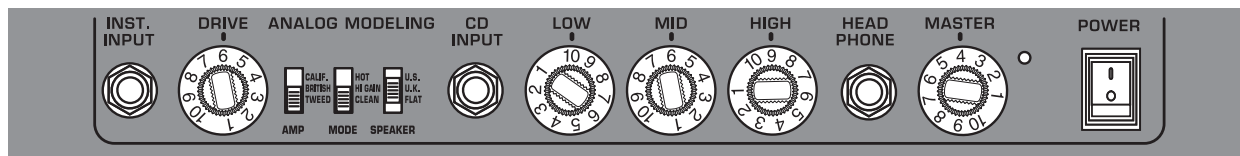


Fig. 3.2: GM108 rear panel

4. Basic Settings

The following four illustrations show you how you can setup your V-TONE GM108.

These settings greatly differ from one another and let you fully exploit the sound diversity of your amp. That way, you have a solid foundation for working on developing your own, recognizable sound and tone.



This setting creates a clear sound that is ideal for finger picking. If you want to use stomp boxes, this setting will be very helpful: The unique sound of your effects will come through more strongly.

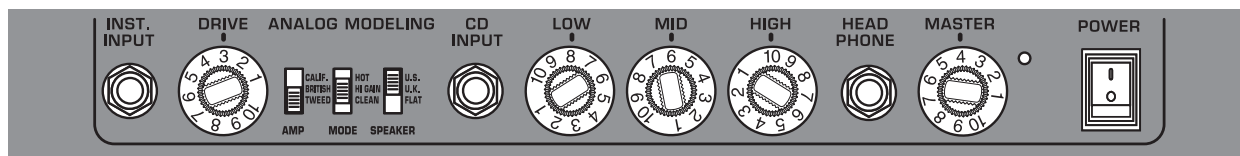


Fig. 4.2: Basic setting CLEAN 2

This is a great setting for playing country, jazz or blues.

A hint: Using the pickup closest to the guitar's neck lets you achieve a rich, clean sound. Try using two pickups at the same time. You'll create an open, bell-like sound.

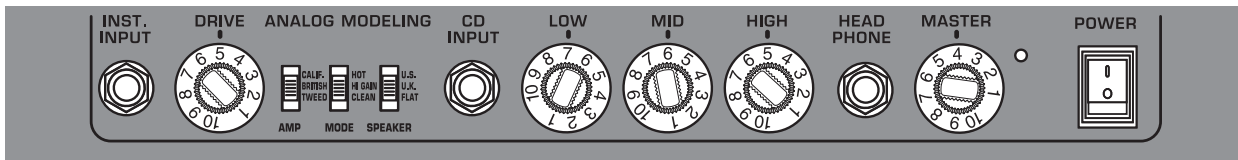


Fig. 4.3: Basic setting CRUNCH

This setting is optimal for distorted rock guitar parts and power chords.

To get a tighter sound, try using the pickups located farther away from the guitar neck.

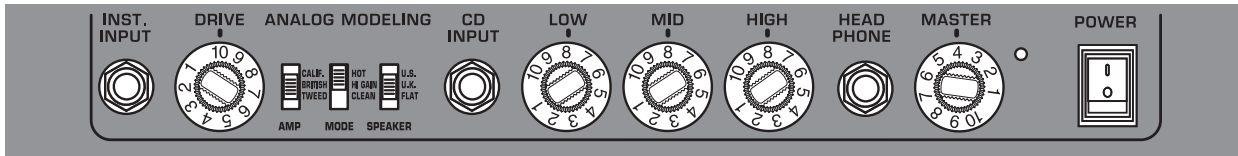


Fig. 4.4: Basic setting LEAD

This hot lead guitar sound rocks!

With the almost endless choice of different sounds you have at your fingertips, you will soon develop your own playing style and broaden the limits of your skills.

This goes for all settings: What guitar you use with your V-TONE GM108 will also influence the overall sound of your playing. That's why we can only give you hints that will make getting started easier. The bulk of the work lies in your hands.

♦ **Most guitars sound at their best when volume and tone controls on the guitar are turned as far up as they go.**

Experiment with all controls to get more experience and to figure out how to get the sound you like. When they find a setting they like, many experienced guitarist write down this setting to remember it for future use. On page 9 you will find amp illustrations in which you can enter your own favorite settings.

A hint: Photocopy this page so you can keep on re-using it in the future!

5. Audio Connections

The guitar input of the BEHRINGER V-TONE GM108 comes as mono 1/4" TS connector.

♦ **Please keep in mind that all equipment has to be grounded at all times. For your own protection, never change or disable the grounding on your equipment or on the cables you use!**

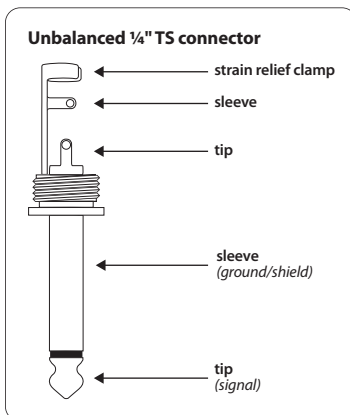


Fig. 5.1: Wiring of an unbalanced 1/4" TS connector for use with INSTRUMENT INPUT

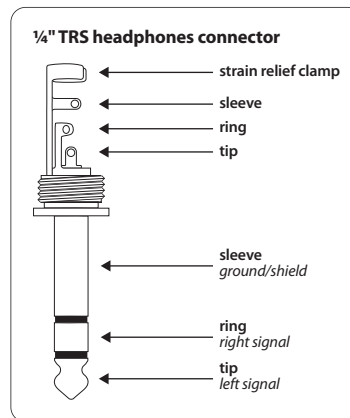


Fig. 5.2: Wiring of a stereo headphones connector for use with CD INPUT

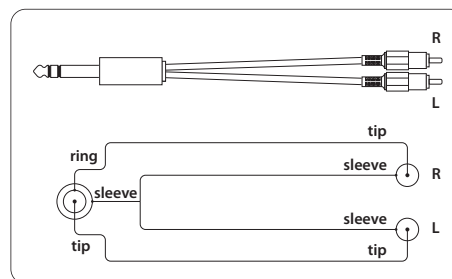


Fig. 5.3: Stereo adapter cable

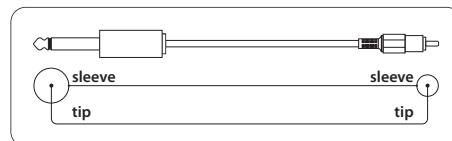


Fig. 5.4: Mono adapter cable

6. Specifications

Audio Inputs

Guitar input connector	¼" TS mono connector
CD input connector	¼" TRS stereo connector

Audio Outputs

Headphone output connector	¼" TRS stereo connector
----------------------------	-------------------------

System Specifications

Power amp output	15 Watts RMS into 4 Ohms
------------------	--------------------------

Loudspeaker

Type	8" vintage design guitar speaker
Impedance	4 Ohms
Power handling	20 Watts

Power Supply

Mains Voltage

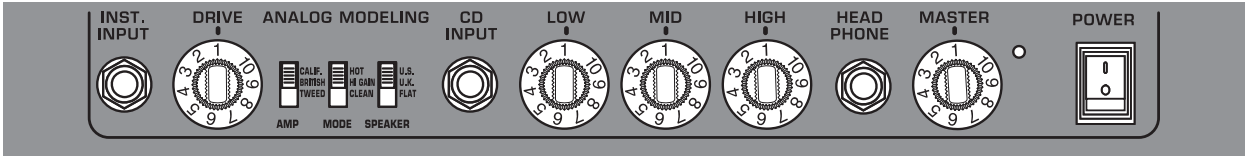
USA/Canada	120 V~, 60 Hz
Europe/U.K./Australia	230 V~, 50 Hz
Japan	100 V~, 50 - 60 Hz

Dimensions/Weight

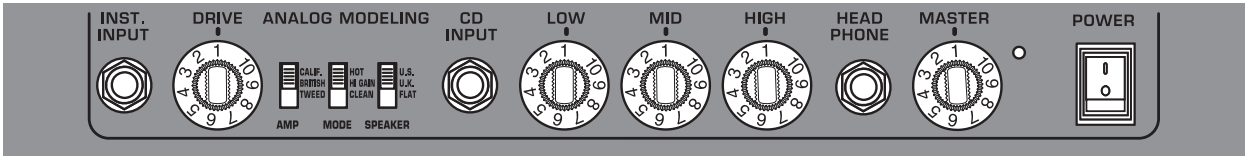
Dimensions (H x W x D)	approx. 322 x 357 x 162 mm (approx. 12 1/16 x 14 1/16 x 6 3/8")
Weight	approx. 5.15 kg (approx. 11.3 lbs)

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 shown.

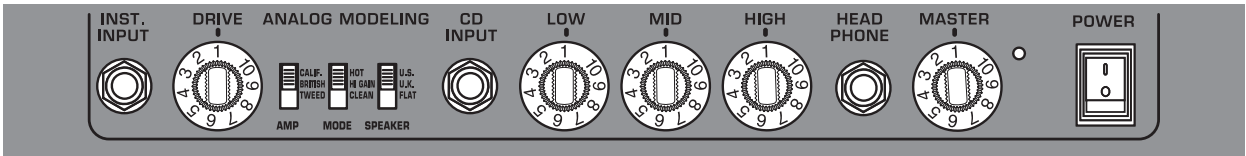
7. Appendix



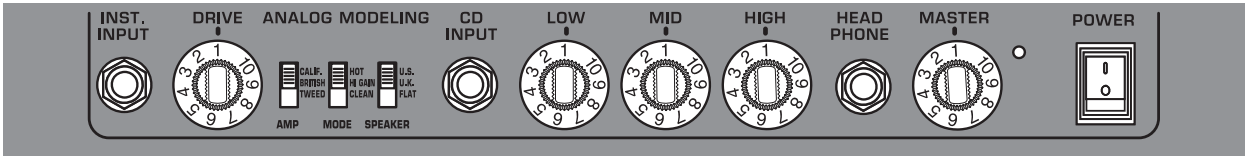
Drive	Amp	Mode	Speaker	Low	Mid	High	Master
Notes:				Song:			



Drive	Amp	Mode	Speaker	Low	Mid	High	Master
Notes:				Song:			



Drive	Amp	Mode	Speaker	Low	Mid	High	Master
Notes:				Song:			



Drive	Amp	Mode	Speaker	Low	Mid	High	Master
Notes:				Song:			

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION



Responsible Party Name: **MUSIC Group Services US Inc.**

Address: **18912 North Creek Parkway,
Suite 200 Bothell, WA 98011,
USA**

Phone/Fax No.: **Phone: +1 425 672 0816
Fax: +1 425 673 7647**

V-TONE GM108

complies with the FCC rules as mentioned in the following paragraph:

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

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

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Important information:

Changes or modifications to the equipment not expressly approved by MUSIC Group can void the user's authority to use the equipment.



We Hear You