

**BG250-112**  
**BG250-115**  
**BG250-210**

**English Manual**





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# Important safety instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this device 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 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 device. When a cart is used, use caution when moving the cart/device combination to avoid injury from tip-over.
13. Unplug this device during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the device 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 device, the device has been

## Important safety instructions

exposed to rain or moisture, does not operate normally, or has been dropped.

### Warning

- To reduce the risk of fire or electrical shock, do not expose this device to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the device.
- This device must be earthed.
- Use a three wire grounding type line cord like the one supplied with the product.
- Be advised that different operating voltages require the use of different types of line cord and attachment plugs.
- Check the voltage in your area and use the correct type. Please refer to the following table:

Voltage	Line plug according to standard
110-125 V	UL817 and CSA C22.2 no 42.

Voltage	Line plug according to standard
220-230 V	CEE 7 page VII, SR section 107-2-D1/ IEC 83 page C4.
240 V	BS 1363 of 1984. Specification for 13A fused plugs and switched and unswitched socket outlets.

- This device should be installed near the socket outlet and disconnection of the device should be easily accessible.
- To completely disconnect from AC mains, disconnect the power supply cord from the AC receptacle.
- The mains plug of the power supply shall remain readily operable.
- Do not install this device in a confined space.
- Do not open the device – risk of electric shock inside.

## Service

- There are no user-serviceable parts in this device.
- All service must be performed by qualified personnel.

## Caution

You are cautioned that any change or modifications not expressly approved in this manual could void your authority to operate this equipment.

## EMC/EMI

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 residential installations. 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. How-

ever, 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.

## For customers in Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

### **About this manual**

This manual will help you learn understanding and operating your TC product. It is available in print and as a PDF download from the TC Electronic website.

**Please read this manual in full, or you may miss important information.**

Please do not operate your TC device before you have made all connections to external equipment as described in the “Setting up” section. In the subsequent sections of the manual, we assume that all connections are made correctly and that you are familiar with the previous sections.

**We reserve the rights to change the contents of this manual at any time.**

To download the most current version of this manual, view the product warranty, and access the growing FAQ database for this product, visit the web page

[www.tcelectronic.com/support/](http://www.tcelectronic.com/support/)



# Introduction

*Now all that's great about bass...  
is at your fingertips.*

Thank you for purchasing a BG250-112, BG250-115 or BG250-210. Now let's see what we got here...

- Powerful? *Check!*
- Rich on features? *Check!*
- Lightweight? *Check!*

So... What else do you need?

## More than meets the eye

There's a lot of clever technology under the hood of this product, but that doesn't mean it's hard to use! Use the Bass, Middle and Treble controls as you would with every other amp – but know that great attention and effort was put into the way these controls affect your sound. Different frequency areas are affected when boosting

and cutting to make it feel “just right”. There's a tuner for 4, 5 and 6-string basses, a balanced output with a Pre/Post EQ button, a headphones out and a rehearsal (“aux”) input for a stereo source to play along with...

This may already be more than you would expect from a bass head/combo... but why not expect even more?

*Let's talk TonePrints.*

## TonePrint

*OK – TonePrints. What are they?*

BG250-112 / BG250-115 / BG250-210 is born with a beautiful chorus effect under the hood, and with its TonePrint knob, you can add just the amount your want. But you know what's even better than having a great effect? Being able to choose from *many* great effects! This is what TonePrint is about.

**Bass TonePrints** are signature effects made by some of the world's greatest bass players. On top of that, product specialists at TC Electronic have also contributed TonePrints that will suit any music genre.

A TonePrint is an effect that has been fine-tuned to give you the perfect balance between ease of use and an inspiring sound.

From TC Electronic's website, you can download and try out chorus, flanger, vibrato, octaver, drive or compressor TonePrints. And of course, all these effects are specially tuned for bass.

More TonePrints – created by some of the world's best bass players and sound aficionados – are added all the time. Last but not least – **TonePrints are free**. This is your personal effect library that will never charge late fees.

## Transferring TonePrints to your device

There are two ways of transferring TonePrints to your TonePrint-enabled TC device.

1. If you have a smartphone, download the free TonePrint app from TC's website. Once downloaded and installed, this app allows you to choose from the complete TonePrint library.
  - To transfer a TonePrint to your device, connect your instrument to your TC device using a regular jack-jack cable, launch the app on your smartphone and follow on-screen instructions. Transferring a TonePrint this way only takes a few seconds.
2. You can also use your computer to download TonePrints from [tcelectronic.com/bg250/toneprints/](http://tcelectronic.com/bg250/toneprints/)
  - Connect your computer to your TonePrint-enabled TC device using a USB cable.
  - Once you have downloaded a TonePrint, open the downloaded file on your computer and follow on-screen instructions.

**Please note that your TC device has two TonePrint slots.** Select the TonePrint slot where you want to store a TonePrint before transferring the new TonePrint.

Switching between TonePrint slots is described on page [10](#).

Once a TonePrint has been transferred to your TC device, it will remain in memory, even when you switch the device off.

**Now, plug in your bass and enjoy your new bass combo. We know you will!**

# Quick Setup Guide

## Unpacking

- Unpack your bass combo. The box should contain the following items:
  - **BG250-112** or **BG250-115** or **BG250-210**
  - Power cable
  - Mini jack to mini jack cable
  - USB cable
  - Manual
  - Switch-3 sticker
- Inspect all items for signs of transit damage. In the unlikely event of this having occurred, inform the carrier and supplier.
- Keep all the packaging if damage has occurred, as this will show evidence of excessive handling force.
- It is also a good idea to keep the packaging for future transportation.

### Setting up

- Connect the power cable to an outlet with correct voltage. This device accepts voltages from 100 to 240 VAC.
- Connect your bass to the INPUT jack on the front panel.
- Adjust the output volume using the MASTER knob.
- PLAY!

# Operation – Front Panel

This section describes the front panel ports and controls of your bass combo.



### 1. INPUT

You can connect an active or passive bass to this ¼" input jack. The input stage of your bass combo is designed to adapt to any type of pickup.

### 2. GAIN knob and CLIP LED

The input gain should be set to the highest possible level without overloading the input stage. To find the correct setting, simply plug in your bass, play and turn up the GAIN knob until the PEAK LED occasionally lights up. Then reduce the gain slightly. When set, simply turn up the MASTER volume knob to start playing.

### 3. DYNAMIC TONE CONTOURING FILTER SECTION

The Dynamic Tone Contouring Filter Section of this TC bass combo is *not* your standard bass amp EQ! Ordinary bass, middle and treble controls boost or cut the same frequency area when you turn the controls clockwise or counterclockwise. The tone controls of a BG250-112, BG250-115 or BG250-210 intelligently

address several different frequencies when you turn them, integrating not only tone control but also contouring your sound.

By adapting one or more target frequencies and bandwidths at the turn of a single knob, the Dynamic Tone Contouring Filter Section combines excellent tone shaping abilities with ease of use.

### 4. TONEPRINT buttons and control knobs A & B

TonePrints are described on page [10](#) of this manual. **If you are not familiar with the concept, please read this section first.** You can also find additional information and videos about TonePrint technology on TC's website.

**Your BG250-112, BG250-115 or BG250-210 bass combo can store two independent TonePrints.** To select a TonePrint slot (A or B), press the button right under the label A or B.

The two TonePrint knobs allow you to control the TonePrint effect amount applied to your signal. For Chorus, Flanger, Vibrato and Octaver, the TonePrint knobs act as **wet/dry mix controls**. For Compression and Drive, the TonePrint knobs act as **amount (intensity) controls**. Featured TonePrint artists may have assigned the TonePrint knob to other parameters.

Please note that while your TC bass combo can **store** two separate TonePrints, only one TonePrint can be **active** at any time.

## Deactivating TonePrint

To switch off TonePrint, either...

- press the button of the currently active TonePrint section *or*
- turn the knob of the currently active TonePrint slot fully counterclockwise *or*
- use a footswitch connected to the PEDAL jack – see section [7](#).

## 5. TONEPRINT LEDs A & B

A TONEPRINT LED (A or B) lights up when the selected TonePrint slot is active..

## 6. MASTER level knob

Use the MASTER knob to set the overall output level of the amp. The master level also controls the level of the PHONES output.

## 7. PEDAL input

You can connect a TC Electronic Switch-3 to the PEDAL input of your bass combo to control the following features:

- Activate TonePrint slot A
- Activate TonePrint slot B
- Mute.

## 8. TUNER

Your bass combo's integrated tuner allows you to easily tune a 4, 5 or 6-string bass.

The B, E, A, D and G LEDs indicate which strings you are currently tuning. When the D *and* G LEDs are lit, you are tuning the C string. The string is in perfect tune when both green LEDs to the right of the string LEDs are lit.

The tuner is always active.

### 9. USB port

To transfer a downloaded TonePrint from your computer to your TC device, connect the computer and your TC device using a USB cable. A USB connection can also be used to update the internal software (firmware) of the TC device.

### 10. MUTE button

To tune you instrument silently, press the MUTE button. This will mute all signal paths (the bass combo's internal speaker, the PHONES and the BALANCED OUTPUT).

When you have connected a Switch-3 to the PEDAL jack (see section 7), you can tap its third switch to mute

or unmute. **Switch-3 overrides the Mute button on the bass combo.**

### 11. AUX IN

The AUX IN is a stereo auxiliary input. Any signal present on the AUX IN jack is played back through the output of your bass combo. This allows you to play along with a rehearsal track, or you can practice to the beat of a metronome click. The included “mini jack to mini jack cable” allows you to use an iPod®, iPhone® or any other consumer playback device as a source for rehearsing.

### 12. PHONES (Speaker Mute)

The PHONES jack is a 1/8” connector for headphones. With a mild speaker filter applied to the bass sound, our studio quality headphone amp caters for a great headphone sound. The headphone output also plays back any signal connected to the AUX IN input jack. This feature allows you to play along with an audio player, a signal from a computer or any other audio source play-



ing background tracks. This feature is excellent for rehearsing or checking out new tracks without disturbing the neighbors.

### 13. PRE/POST EQ button

Use the PRE/POST button located to the left side of the BALANCED OUT jack to determine where in the signal chain the signal for the balanced output should be tapped.

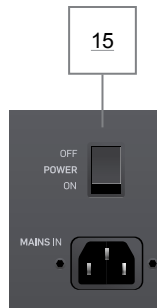
- PRE setting: The signal is tapped before the EQ and the currently active TONEPRINT effect.
- POST setting: The signal is tapped after EQ and the currently active TONEPRINT effect.

### 14. BALANCED OUTPUT

Use the BALANCED OUT XLR jack to connect your bass combo to the PA when you play on stage, or to connect your amp to a recording device when you are in the studio.

## Operation – Rear Panel

This section describes the rear panel controls and ports of your bass combo.



### 15. MAINS IN – Power switch & Power input

The switched-mode power supply of this device accepts voltages from 100V to 240V. The ground pin of the power supply unit must always be connected in order to avoid voltage differences between e.g. the PA and your bass combo.

## Protection mode

This product is equipped with an advanced protection system for both the amplifier's and your own safety. These protection features should only kick in if you operate this product under extreme conditions.

**Be sure not to cover the cooling grid of your bass combo!** Insufficient ventilation may cause the amplifier's temperature to increase to critical values.

Your bass combo is equipped with an intelligent protection system, ensuring that the amp does not suffer or malfunction if operated wrongly or in extreme environments. When the amplifier switches to Protection mode, the speaker output is muted, and the TUNER LEDs start flashing in pairs of two.

**Protection mode is invoked...**

- if a short circuit occurs (on speaker outputs).

- if the amplifier is used in an environment that is too hot.
- if proper ventilation is not ensured.

In Protection mode, the speaker outputs are shut off to prevent speaker damage. However, the balanced output still passes audio.

## How to proceed in Protection mode

- If the amplifier does not automatically recover from Protection mode and feels hot, try turning off the amplifier for a minute to let it cool. Ensure sufficient ventilation.
- Ensure that your speaker cable is not defect, as such a defect could cause a short circuit.
- Turn on the amplifier again.

If these steps do not solve the problem and the Tuner LEDs continue flashing, you will have to send the amplifier to a qualified service center for inspection.

## Links

- TC Electronic Bass Products:  
[tcelectronic.com/bass/](https://tcelectronic.com/bass/)
- TonePrint Bass:  
[tcelectronic.com/toneprint/toneprint-bass/](https://tcelectronic.com/toneprint/toneprint-bass/)
- TC Support:  
[tcelectronic.com/support](https://tcelectronic.com/support)
- TC @ Facebook:  
[facebook.com/tcelectronic](https://facebook.com/tcelectronic)

# Technical Specifications

These are the specifications for:

- BG250-112
- BG250-115
- BG250-210

Input section	
Input connector	1/4" jack
Input impedance	500 kOhm / 100 pF
Gain range	-96 to 36 dB
Tone control	
Bass – BG250-112	80 Hz @ Gain: -24 to 0 dB; 100 Hz @ Gain 0 to +15 dB
Bass – BG250-115	80 Hz @ Gain: -24 to 0 dB; 100 Hz @ Gain 0 to +15 dB
Bass – BG250-210	70 Hz @ Gain: -24 to 0 dB; 90 Hz @ Gain 0 to +15 dB

Mid – BG250-112	500 Hz @ Gain: -24 to 0 dB; 800 Hz @ Gain 0 to +15 dB
Mid – BG250-115	500 Hz @ Gain: -24 to 0 dB; 800 Hz @ Gain 0 to +15 dB
Mid – BG250-210	500 Hz @ Gain: -24 to 0 dB; 800 Hz @ Gain 0 to +15 dB
Treble / TweeterTone – BG250-112	1800 Hz @ Gain: -24 to 0 dB; 2500 Hz @ Gain 0 to +15 dB
Treble / TweeterTone – BG250-115	1800 Hz @ Gain: -24 to 0 dB; 2000 Hz @ Gain 0 to +15 dB
Treble / TweeterTone – BG250-210	1800 Hz @ Gain: -24 to 0 dB; 2240 Hz @ Gain 0 to +15 dB
TonePrint	2 TonePrint slots
Tuner	Bass Tuner, always on
Tuning range	B0 (30.87 Hz) to G4 (392.00 Hz)
Mute	Mutes speaker out, Phones out and Balanced out
Master Level / Headphones Out	Studio quality headphone amp

## Technical Specifications

HP Out Impedance	40 to 600 Ohm
Mains supply	100 – 240V~ 50/60 Hz (70 W @ 1/8 of Max. Output)
Power module rating	250 W (500 W instantaneous Peak @ min. Load)
Balanced output	Balanced XLR, Pre/Post Pre-amp
Bal. Out Max.	+2 dBu
Bal. Out Optimal Load Impedance	600 Ohm
Rehearsal input	1/8" jack input, fits to iPod®
Operating / Storage Temperature	0° C to 50° C / -30° C to 70° C
Humidity	Max. 90 % non-condensing
Dimensions – <b>BG250-112</b>	458 x 375 x 540 mm 18.03" x 14.76" x 21.26"
Dimensions – <b>BG250-115</b>	462 x 620 x 380 mm 18.19" x 24.41" x 14.96"

Dimensions – <b>BG250-210</b>	458 x 375 x 620 mm 18.03" x 14.76" x 24.41"
Weight – <b>BG250-112</b>	16.15 kg 35.60 lbs
Weight – <b>BG250-115</b>	17.9 kg 39.64 lbs
Weight – <b>BG250-210</b>	20.25 kg 44.64 lbs
Finish	Tolex covered. Handcrafted plywood box
Porting	Front porting
Woofers – <b>BG250-112</b>	TC Electronic custom 12"
Woofers – <b>BG250-115</b>	TC Electronic custom 15"
Woofers – <b>BG250-210</b>	2 x TC Electronic custom 10"
Tweeter	TC Electronic custom Piezo

Due to continuous development, these specifications are subject to change without notice.

