



ROCK ON AUDIO

Personal Monitor System

Rockbox Limiter Headphone Amp
and Rockon Cable

User Manual

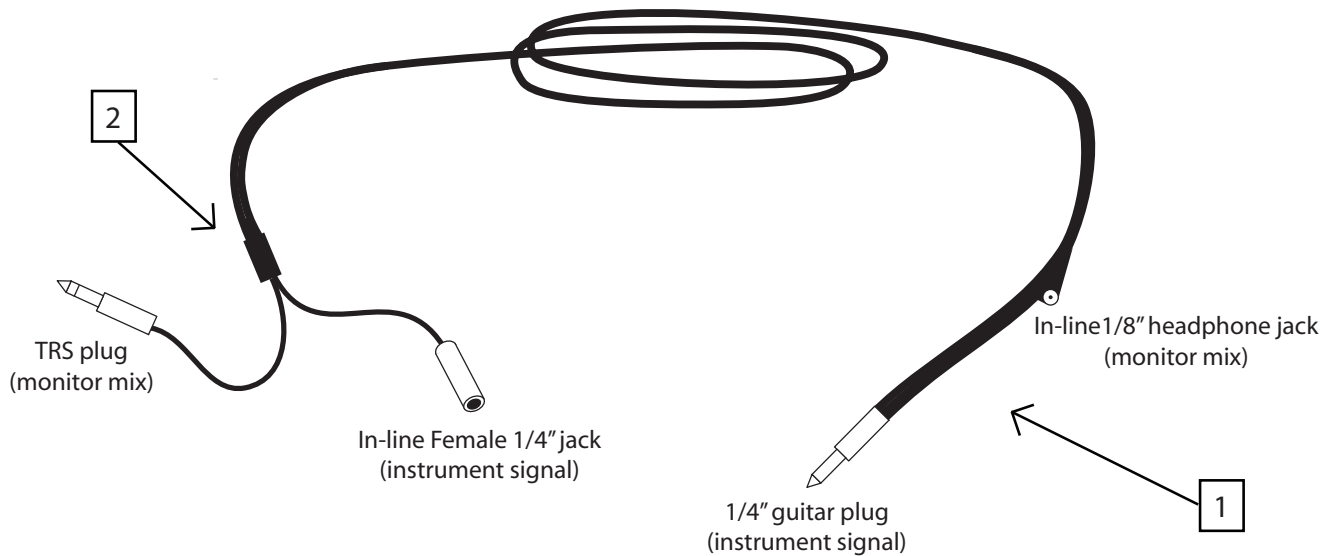


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How the system works & the Rockon Cable

This system is designed around one new idea: use one cable for both your instrument signal and your monitor mix. The Rockon Cable (pictured below) does exactly this. There are two ends of the cable:



1 The Performer end of the cable:

On the right side of the picture above you can see the performer end of the RockonCable. At the very end of the cable there is a standard **1/4" instrument plug**. This plugs into your instrument.

If you continue down the cable (going away from the instrument plug) you will see an **In-line 1/8" headphone jack**. This is where you can plug in your headphones or in-ear monitors.

2 The Rock Box end of the cable:

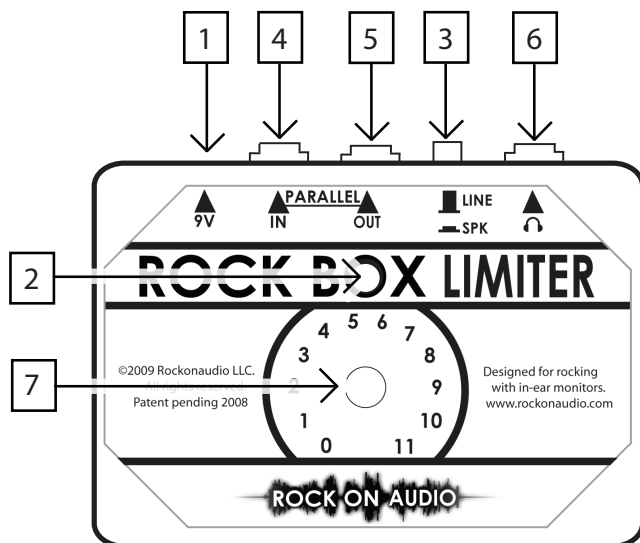
On the left side of the picture above you can see the Rock Box end of the Rockon Cable. Here you will see two connectors. One of them is an in-line female 1/4" jack, and the other is a TRS 1/4" plug. The **in-line female 1/4" jack** is your instrument signal. From here you can patch your instrument signal to your guitar amp or pedals. In this respect, the Rockon Cable is functioning like an *instrument extension cable*.

The second connector located at the Rock Box end of the cable is an **TRS 1/4" Plug**. This will plug into the output port of the Rock Box (this port is labeled with a headphone symbol and is located on the right). This connection links your monitor mix from the Rock Box to the in-line 1/8" headphone jack (located at the performer end of the cable).

The Rock Box Limiter Headphone Amp

CONNECTORS AND CONTROLS

This section provides descriptions of each connector and control element of the rockbox limiter.



1 9V DC Power Input

To power the unit, please use the provided 9V AC adaptor (aka "wall wort"). The default polarity is center-pin positive, Although this may be adjusted internally to change the polarity. Please visit the website for instructions on this procedure, or contact Rock On Audio directly via phone or email.

2 ON Led

Connecting the power supply to the unit automatically turns it on, and the ON Led will illuminate. It will be either green or blue, depending on which setting the LINE/SPK push button (#3) is set to: LINE = Green, SPK = Blue. This feature was designed to help the user ensure the correct settings in dark stage environment.

3 LINE/SPK push-button switch

This is a bush button switch that enables you to choose between two different types of input signals. Pushing the button causes the switch to engage or dis-engage a 30dB pad on the input. (this pad does not effect the parallel out). Each time you push the button, it will stay "in" or "out".

■ When the button is "OUT", the 30dB pad is dis-engaged, and the unit is ready to accept a standard line-level signal (i.e. from an aux send of a mixing board).

■ When the button is "IN", the 30dB pad is engaged, and the unit is ready to accept large voltage swing signals, such as a speaker-line signal.

4 1/4" TRS Input

To send a signal from a mixer or a speaker** to the Rockbox Limiter, you will need an audio cable that has 1/4" connectors. This unit can accept mono balanced TRS and un-balanced TS signals.

**when using a speaker-line signal, it will always be un-balanced, so use an un-balanced 1/4" TS cable (i.e. a standard speaker cable).

5 1/4" TRS Parallel Output

This connector jack is in parallel with the 1/4" TRS Input. When you want to share a mix with another Rockbox, it is useful to "daisy-chain" the signal.

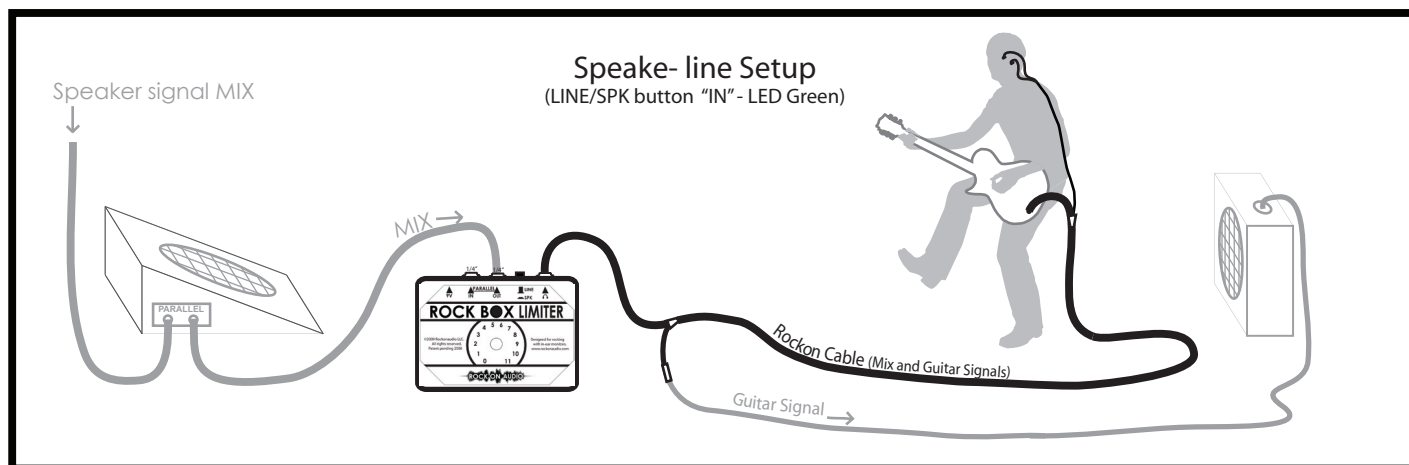
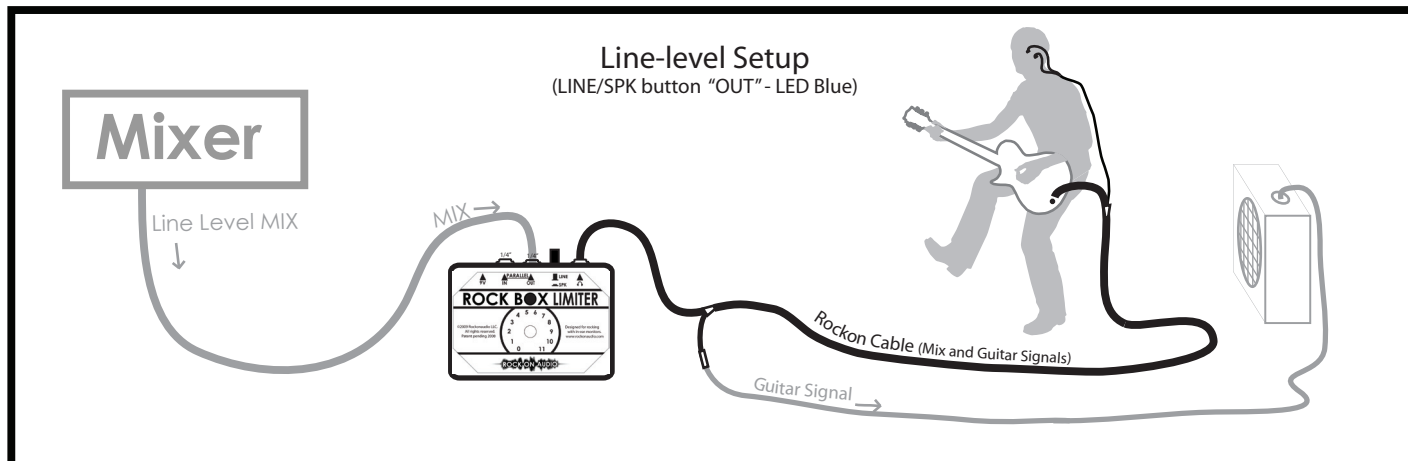
6 1/4" Headphone Output

Plug in your headphones or in-ear monitors into this output jack. If you are using a Rockon Cable, plug in the 1/4" TRS connector on the "rockbox end" of the cable.

7 Volume Knob

Always start at 0. Turn it up to your desired listening volume. The Rockbox Limiter has output limiting specifically designed for use with in-ear monitors. It protects your ears against unwanted feedback and the accidental "pops" that happen in live sound environments.

Setup



1. Check out the diagrams above. Choose your setup: Line-level or Speaker-line.
2. Plug in your monitor mix signal (speaker or line level). When using a Speaker level signal, set Rock Box to SPK. When using a Line level signal, set to LINE.
3. Plug in power. Please use the supplied 9V power supply.
4. Plug in the Rockon Cable 1/4" TRS Plug into the Rock Box. Use the port labeled with a generic headphone symbol (it is the right-most 1/4" jack)
5. Patch your instrument signal from the In-line Female 1/4" Jack (located at the Rock Box end of the Rockon Cable) to your amp, DI or pedals.
6. Plug in the 1/4" instrument plug (located at the performer end of the Rockon Cable) into your instrument.
7. **Set your volume to 0.**
8. Plug in your in-ear monitors or headphones into the inline 1/8" jack (located 8 inches away from the performer end of the rockon cable).
9. Adjust Volume to your desired setting.

Extra Notes:

Safety:

High volumes can damage your hearing and your headphones. Although the Rockbox Limiter has output limiting, it is designed to limit only the extremely loud peaks. The threshold is set this way so it will not effect the loudness and dynamics of your monitor mix, and only protect against extremely harmful loud signals usch as feedback or high spikes caused by unplugging of mics or instruments on active channels. So please keep in mind how loud your in-ear mix is, and if you still hear ringing after band practice or a show, you probably want to think about monitoring at a lower overall volume. But please continue to rock on.

More about INPUTS:

There are two ways to setup your system. One is to send a line level signal to the Rock Box. The second is to send a speaker line signal to the Rock Box. Both work great, but to aviod distorting your signal, you must use the correct setting of the LINE/SPK button on the Rock Box.

Line Level signal - set to LINE mode. This will setup your rockbox to recieve standard line level signals (i.e. what you would get from an aux out of a mixer, or any line-level output for the matter)

Speaker Line - set to SPK mode. This will pad your input by 30dB and allow you to access your monitor mix from a speaker line signal. This is useful if the club you are playing has passive floor monitor speakers already in their system. You can simply use a standard 1/4" mono cable (i.e. a guitar cable) from the parallel out of the floor wedge and go directly into the rockbox. This way you can continue to use the floor wedge as usual, but you will also hear that mix in your in-ear monitors.

Parallel out. This is for use when you are sharing a mix with other band members. The parallel out is an easy way to "daisey-chain" rockboxes. ***It can also be used as a means to access your monitor mix before the speaker signal hits a passive floor wedge.