

# CR85

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CREATIVE REFERENCE POWERED STUDIO SUBWOOFER WITH BLUETOOTH  $\ensuremath{^{\circ}}$ 

# **OWNER'S MANUAL**



www.mackie.com

# **Important Safety Instructions**

- Read these instructions 1.
- 2 Keep these instructions
- Heed all warnings
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- Clean only with a dry cloth. 6.
- Do not block any ventilation openings. Install in accordance with the manufacturer's 7. instructions
- Minimum distance (5 cm) around the apparatus for sufficient ventilation. The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc. 8.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- No naked flame sources, such as lighted candles, should be placed on the apparatus. 10.
- The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The equipment should be installed and operated with minimum distance 11. 20cm between the radiator & your body.

AVISRELATIFS À L'EXPOSITION RF – Cet équipement est conforme aux limites d'exposition au rayonnement ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

- 12. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 13. Only use attachments/accessories specified by the manufacturer
- Use only with a cart, stand, tripod, bracket, or table specified 14. 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.
- Unplug this apparatus during lightning storms or when unused for long periods of time. 15.



- 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 has been exposed to rain or moisture, does not operate normally, or has been dropped. 16.
- This apparatus shall not be exposed to dripping or splashing, and no object filled with liquids, such as vases or beer glasses, shall be placed on the apparatus. 17.
- Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock



an equilateral triangle is intended to alert the user to the prescence of uninsulated "dangerous voltage" within the product's enclosure, that may be of significant magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user of the prescence of important operating and maintaining (servicing) instructions in the literature accompanying the appliance.

WARNING — To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

CAUTION - To prevent electric shock hazard, do not connect to mains power supply while grille is removed.

CAUTION - These servicing 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 operating instructions unless you are qualified to do so.

- 19. This apparatus has been equipped with a rocker-style AC mains power switch. This switch is located on the rear panel and should remain readily accessible to the user.
- The MAINS plug or an appliance coupler is used as the disconnect device, so the disconnect device shall remain readily operable. 20.
- Explanation of symbol, marking, signal lamp or similar means indicates that the apparatus is completely disconnected from the mains. 21.
- 22. WARNING: Please refer to the information on exterior bottom enclosure for electrical and safety information before installing or operating the apparatus
- The maximum ambient temperature during use of the appliance must not exceed 10–50° C // 50–122° F. 23.
- **NOTE:** 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. 24. 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 the 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.

CAUTION: Changes or modifications to this device not expressly approved by LOUD Audio, LLC. could void the user's authority to operate the equipment under FCC rules.

This apparatus does not exceed the Class B limits for radio noise emissions from digital 25. apparatus as set out in the radio interference regulations of the Canadian Department of Communications

#### CAN ICES-003(B)/NMB-003(B)

ATTENTION — Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant las limites applicables aux appareils numériques de class A/de class B (selon le cas) prescrites dans le réglement sur le brouillage radioélectrique édicté par les ministere des communications du Canada.



This apparatus has been designed with Class-I construction and must be connected to a mains socket outlet with a protective earthing connection (the third grounding prong).

- This device complies with Part 15 of the FCC rules and Industry Canada's 27. license-exempt RSS standard(s). Operation is subjected 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.
- **28.** RF Power: <10dBm Bluetooth Version: 5.0 Bluetooth frequency range: 2402 - 2480 MHz
- Exposure to extremely high noise levels may cause permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a period of time. The U.S. Government's Occupational Safety and Health Administration 29. (OSHA) has specified the permissible noise level exposures shown in the following chart.

According to OSHA, any exposure in excess of these permissible limits could result in some hearing loss. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels use hearing protectors while the equipment is in operation. Ear plugs or protectors in the ear canals or over the ears must be worn when operating the equipment in order to prevent permanent hearing loss if exposure is in excess of the limits set forth here:

Duration, per day in hours	Sound Level dBA, Slow Response	Typical Example
8	90	Duo in small club
6	92	
4	95	Subway Train
3	97	
2	100	Very loud classical music
1.5	102	
1	105	Ty screaming at Troy about deadlines
0.5	110	
0.25 or less	115	Loudest parts at a rock concert

Correct disposal of this product: This symbol indicates that this product should not be disposed of with your household waste, according to the WEEE directive (2012/19/EU) and your national law. This product should be handed over to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, or your household waste disposal service.

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That's All, Folks!
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# **Chapter 1 : Welcome**

#### Introduction

Hello everyone! This is the CR8SBT Owner's Manual. This document contains detailed information about the CR8SBT... we hope you like it!

Mackie CR8SBT Creative Reference Subwoofer with Bluetooth<sup>®</sup> combines professional quality sound with powerful dedicated bass reinforcement for your studio or home.

The sleek design looks great in any room and is the perfect match for any CR Series monitors.

Flexible rear panel inputs and outputs include 1/4" TRS and RCA plus easy Bluetooth® pairing for effortless streaming.

Dial your sound in just right with Input and Output level controls plus a variable crossover and polarity switch.

The included CRDV Desktop Volume Control makes controlling your system a breeze from studio reference to casual listening.

So there you have it. Again, we hope you like it. If you have any questions or comments about this Owner's Manual (or other Mackie documentation), please don't hesitate to contact us:

- 1-800-898-3211 (Monday through Friday, normal business hours, Pacific Time)
- <u>www.mackie.com/support-contact</u>

#### **Features**

- 200W of CR Series sound for home studios, gaming and listening
- Adds Bluetooth<sup>®</sup> connectivity to any non-Bluetooth<sup>®</sup> stereo speakers
- 8" polypropylene woofer and custom-tuned ports for deep bass extension
- Flexible inputs and outputs: 1/4" TRS and RCA, plus Bluetooth® connectivity
- Adjustable crossover frequency that ranges from 40-180Hz
- Polarity control
- Included CRDV desktop volume remote to control your whole system

#### **Things to Remember**

- Never listen to loud music for prolonged periods.
  Please see the Safety Instructions on page 2 for information on hearing protection.
- Save the shipping boxes and packing materials! You may need them someday. Besides, the cats will love playing in them and jumping out at you unexpectedly. Remember to pretend like you are surprised!
- Save your sales receipt in a safe place.

#### **About This Guide**

This guide is designed to be accessible, with subsections as complete as practical to minimize having to electronically leaf back and forth looking for the whole story. The entire manual does not need to be read to figure out how to use the monitors.

As the saying goes, "a picture tells a 1000 words". With that thought in mind, we added quite a few illustrations, screenshots and other images throughout to accompany the text.



This icon marks information that is critically important or unique! For your own good, read and remember them.



There's an illustration of a microscope, so, of course, you're going to get more detailed information when you see this little guy. There are explanations of features and practical tips listed here.



It's a good idea to pay attention to text displayed next to a note icon, as this icon draws attention to certain features and functions relating to the usage of the subwoofer.

#### **Getting Started**

The following steps will help you set up the monitors quickly. If you desire a more thorough walk-through, there is a wealth of information in the following pages!

- 1. Read and understand the Important Safety Instructions on page 2.
- 2. Make all initial connections with the power switches OFF on all equipment. Make sure the master volume, level and gain controls are all the way down.
- Connect the outputs from the mixing console (or other signal source) to the inputs on the rear panel of the subwoofer, then connect the outputs from the subwoofer to the inputs of the monitors. Connect the included CRDV Volume Control to the CRDV jack.
- 4. Push the line cord securely into the subwoofer's/monitor's connectors and plug the other ends into grounded AC outlets. The subwoofer/monitor may accept the appropriate voltage as indicated near the connector.
- 5. Turn the mixer (or other signal source) on.
- 6. Turn the subwoofer on. Turn the level control to unity.
- 7. Turn the monitors on. Turn the level control to unity.
- 8. Start the signal source and raise the mixer's main L/R fader up to a comfortably loud listening level.





### **Power Connector and Fuse**



Connect the detachable power cord (included in the packaging with the subwoofer) to the power receptacle, and plug the other end of the power cord into a live AC outlet.



Make sure that the AC outlet is matched to the AC power indicated on the rear panel (near the receptacle).

Disconnecting the plug's ground pin is dangerous. Don't do it!

The fuse is located behind the fuse cover, at the bottom of the IEC socket. See the "Troubleshooting" section on page 17 for information about replacing the fuse.

#### **Power Switch**



Press the top of this rocker switch down to turn the subwoofer on. Make sure the front panel volume knob is off [fully counter-clockwise] before turning it on. Press the bottom of this rocker switch down to turn the subwoofer off.

The ring surrounding the Running Man logo on the front panel illuminates white when the powered monitor is plugged into a live outlet, the power switch is turned on, and the front panel volume knob is turned clockwise until the monitor "clicks" on. The ring will illuminate green when connected to a Bluetooth device.

As a general guide, the mixer (or other signal source) should be turned on first, subwoofer next, and monitors last. As such, the monitors should also be turned off first, followed by the subwoofer, then the mixer. This will reduce the possibility of any turn-on or turn-off thumps and other noises generated by any upstream equipment from coming out of the speakers.

#### **Input Jacks**



Connect the line-level signal from a computer, mixer, smartphone, tablet, or other signal source to one (or more) pairs of these input jacks. There are two types of input connectors to choose from:

- 1/4" line-level signals driven by balanced or unbalanced sources.
- RCA line-level signals driven by unbalanced sources.

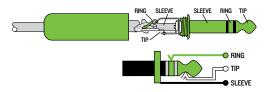


All inputs may be used simultaneously. In other words, if there is a physical connection to the 1/4" L/R line inputs and another physical connection to the RCA L/R line inputs, none of those inputs will be interrupted. An easy way to look at it is... there are extra inputs! These line-level connections sum together and do not override each other.



A balanced signal provides better noise rejection and is the preferred method, especially if using a cable longer than 20 feet (6 meters).

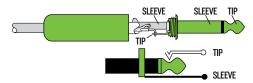
To connect balanced lines to these inputs, use a 1/4" Tip-Ring-Sleeve (TRS) plug. "TRS" stands for Tip-Ring-Sleeve, the three connection points available on a stereo 1/4" or balanced phone jack or plug. TRS jacks and plugs are used for balanced signals and are wired as follows:



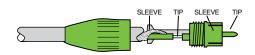
#### 1/4" TRS Balanced Mono Wiring:

Sleeve = Shield (Ground) Tip = Hot (+) Ring = Cold (-)

To connect unbalanced lines to these inputs, use a 1/4" mono (TS) phone plug, wired as follows:



The unbalanced RCA plugs are wired as follows:



**Unbalanced RCA:** 

Tip = Hot (+)

Sleeve = Shield (Ground) Tip = Hot (+)

1/4" TS Unbalanced Mono Wiring:

Sleeve = Shield (Ground)



NEVER connect the output of an amplifier directly to a subwoofer's input jack. This could damage the input circuitry and we wouldn't want that now, would we?

#### **Output Jacks**



Connect these output jacks to the input jacks of studio monitors. Like the inputs, there are two types of output connectors to choose from for the left and right outputs: 1/4" balanced or unbalanced or unbalanced RCA.



All outputs may be used simultaneously. In other words, if there is a physical connection to the 1/4" L/R line outputs and another physical connection to the RCA L/R line outputs, none of those outputs will be interrupted. An easy way to look at it is... there are extra outputs! These line-level connections sum together and do not override each other.



A balanced signal provides better noise rejection and is the preferred method, especially if using a cable longer than 20 feet (6 meters).

The frequency range depends on where the crossover level is set.

These output jacks are wired the same as the input jacks as seen on the previous page.

### **Input Level Knob**



The CR8SBT subwoofer expects a line-level signal at its input. Use this control to adjust the sensitivity of the input section (from Off to Max) according to the signal strength at its input.

### Sub Output Level Knob



This knob adjusts the subwoofer's overall output level (from Off to Max). Balance the subwoofer to your desired low-frequency output level and adjust the crossover to your desired setting.

### **Crossover Knob**



The CR8SBT crossover allows you to choose a crossover frequency for studio monitors ranging from 40 Hz to 180 Hz for optimal sound. Adjust to what sounds best to your ears.

#### **Gas Tank and Oil Pan Knob and Button**



The CR8SBT periodically needs a fresh tank of gas and an oil change. This button/knob feature is the place to do it!

There are only two settings: in its most counter-clockwise position (far-left), it acts as a gas tank. But when rotated to its most clockwise position (far-right), then it acts as the oil pan. Start by rotating this knob to one or the other, depending on what will be added.

Next, simply push this rotatable knob –it doubles as a button! – and it will "pop open", allowing you to add the gas and/or oil. The subwoofer is ready to rock 'n roll again!

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How often they need to be changed is dependent on the usage... the more you use the subwoofer, the more the gas and oil need to be added!

#### **Polarity Switch**



This switch – when to the left – sends a normal  $(0^{\circ})$  polarity of the signal into the subwoofer amplifier. It has no effect on the signal at the outputs.

This switch – when to the right – reverses the polarity of the signal going into the subwoofer amplifier by 180°. It has no effect on the signal at the outputs.

There is no right or wrong setting for this switch. Listen to the overall blend of the subwoofer with the rest of the system and select the switch position that gives you the best sound. In fact, your system may vary when positioned differently. Don't be afraid to experiment with the position of the polarity switch. See page 14 for more information.

#### **CRDV** Jack



Plug the 1/4" connector of the included CRDV volume controller to this jack for remote control of the overall and subwoofer levels.

#### **CRDV** Features

Included with your CR8SBT subwoofer is a CRDV volume controller. With it, you are able to control the overall volume level, as well as the subwoofer level... all without having dig around behind the subwoofer!



There are three control knobs:

- The top control knob adjusts the overall volume of the system. Rotate clockwise to turn it up and counter-clockwise to turn it down... although we don't know why you would want to turn it down!
- The middle control knob adjusts the subwoofer volume. Rotate clockwise to turn it up and counter-clockwise to turn it down.
- The bottom control knob adjusts the settings of the sun. Rotate clockwise to turn the heat up and counter-clockwise to turn it down.



Hey sports fans, in a pinch, the CRDV can also double as a hockey puck.

# **Chapter 3 : CR8SBT Front Panel Features**



## Running Man Bluetooth Button / LED



The ring surrounding the Running Man logo on the front panel illuminates and flashes white when the subwoofer is plugged into a live outlet and the power switch is turned on. The ring will illuminate solid green when connected to a Bluetooth device.

The logo isn't just for pretty looks and LED illumination... it's also how to connect your device to the monitor via Bluetooth! Read on... Upon powering up the subwoofer, the Bluetooth function is either:

(1) In pairing mode. See 'Pairing and connecting for the first time' (see below) or...

(2) ... Paired and connected. See 'Previously paired and connected devices' (also below).

#### Pairing and connecting for the first time:

As mentioned on the previous page, upon power-up, the ring surrounding the button will illuminate and flash white for approximately one minute while in pairing mode.

While the subwoofer is in pairing mode, simultaneously scan for Bluetooth devices on your smartphone, tablet, or computer. You should see the CR8SBT appear in the list of "available devices". Select it by tapping it. From there, your Bluetooth device should indicate that it is successfully connected. Additionally, the Bluetooth button will stop flashing and remain solid green. If it does not, start the pairing process again, and make sure that the subwoofer and your device are both in pairing mode at the same time.

If the LED is solid green (device connected) or solid white (no device connected and not searching), you may enter pairing mode by pressing and releasing the Running Man logo for 2+ seconds – it doubles as the Bluetooth button!

#### Previously paired and connected devices:

The Bluetooth connection will disconnect if it's out of range. Previously paired and connected devices will automatically reconnect and the Running Man logo / Bluetooth button will illuminate.

If the LED is solid green (device connected) or solid white (no device connected and not searching), you may enter pairing mode by pressing and releasing the Running Man logo for 2+ seconds – it doubles as the Bluetooth button!



While your Bluetooth device is connected to the subwoofer, you can quickly press the Bluetooth button on the front of the unit to pause/play your audio (the same as if you'd pressed pause/play on your device).



The Bluetooth may disconnect when affected by Electrostatic Discharge [ESD]. Manually reconnect the Bluetooth connection.

\*\*\*IMPORTANT NOTE: If connecting a CR8SBT subwoofer to a pair of Mackie CRxBT monitors, the Bluetooth device – phone, tablet, computer – only needs to be paired with one or the other, not both (although the subwoofer is the preferred route).\*\*\*

#### **Custom-Tuned Bottom Shelf Port**

Located on the bottom of the CR8SBT is a port. This custom-tuned shelf port uses the radiation from the rear of the woofer cone to extend the low-frequency response of the speaker. The size of the port is carefully designed with respect to the volume of the cabinet and the characteristics of the woofer to produce deep, low-frequency extension.

#### **Input Signal Wiring**

We recommend using high-quality, shielded cables to connect the signal source to the signal input jacks on the subwoofer.

Two types of input connectors are provided to interface with virtually any application you may have:

- Balanced TRS / Unbalanced TS cables work well with the 1/4" inputs.
- Unbalanced phono cables work well with the RCA inputs.

**NOTE:** Route the cable away from AC power cords and outlets. These are common sources for hum in an audio signal. Wall warts and line lumps are especially insidious hum inducers!

**NOTE:** In certain home theater applications, it may be necessary to connect the speaker outputs from a stereo receiver to the inputs of the subwoofer if the receiver doesn't have preamp outputs or other line-level output connections.



**CAUTION**: Do not attempt to connect a speaker output directly to the inputs of the subwoofer! Speaker levels are much higher than line levels and can damage the input circuitry in the monitors.

However, it is possible to insert a speaker-level to line-level signal attenuator between the receiver's speaker output and the subwoofer's input. Any local authorized dealer should be able to assist, or you can build your own.

#### **Care and Cleaning**

The subwoofer will provide many years of reliable service if you follow these guidelines.

- Avoid exposing it to moisture.
- Avoid exposure to extreme cold (below freezing temperatures).
- Use a dry cloth to clean the cabinets. Only do this when the power is turned off and the subwoofer unplugged.

# The Ins and Outs of Polarity

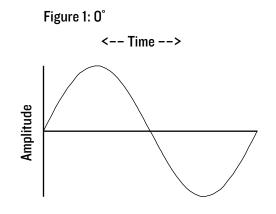
The CR8SBT subwoofer includes a switch that allows you to quickly invert the polarity of the subwoofer's output relative to the input signal it is receiving from the mixer or other sound source. But what exactly does that mean? A subwoofer works by literally pumping air as the woofer cone moves in and out with respect to the cabinet in which it is housed. It does so according to the low-frequency portion of the signal it receives from the sound source.

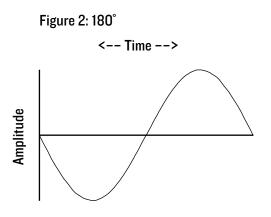
The woofer cone is simply following the waveform as seen in the sine wave in Figure 1. As the sine wave rises, the woofer cone pushes out. Likewise, as the sine wave falls, the woofer cone pulls into the cabinet. A musical signal is much more complex, of course, but the same principle applies. Movement of the woofer cone causes air pressure changes that we perceive as sound.

When the polarity switch is to the right, the original waveform is simply reversed 180° [see Figure 2]. Again, the subwoofer cone follows the waveform. However, this time the woofer cone starts by pulling into the cabinet followed by the woofer cone pushing out. If you have ever experimented with a subwoofer polarity switch, you may not have noticed any changes to the sound regardless of its position, especially if you are listening to just the subwoofer. This is normal, as our ears perceive them both at the same time.

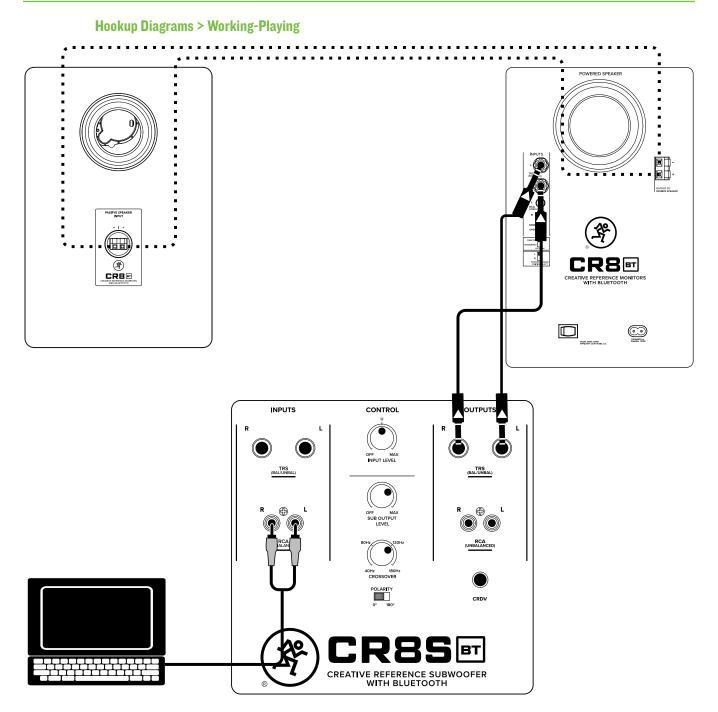
The polarity switch comes into play when the subwoofer is paired with studio monitors. Ideally, the woofer cones of the subwoofer and monitors would work together by pushing and pulling in unison. CR8SBT subwoofers are designed to be used in a broad range of applications. The flexibility provided by the polarity switch is necessary to ensure that you are receiving the best possible sound from your system, regardless of your setup.

#### **Polarity Waveforms**





# **Hookup Diagrams**

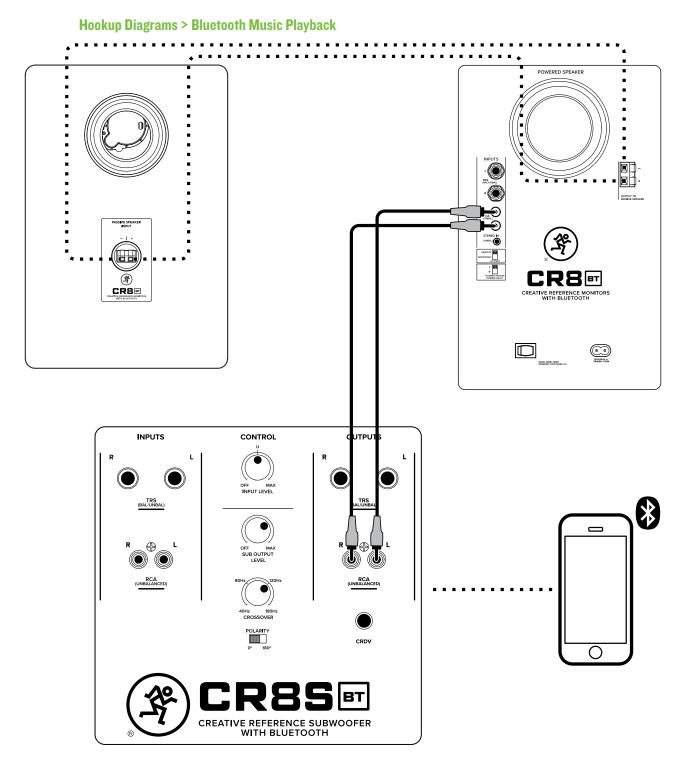


Connecting a CR8SBT to the signal chain is quite easy, so let's take a quick look at a fairly typical setup. In this example, a computer is connected directly to the subwoofer's RCA inputs. [Note: you could also plug a source – such as a mixer, smartphone, mp3 player or other signal source – directly into the subwoofer's input(s)].

From here, the L/R outputs from the CR8SBT are connected to the inputs of a pair of CR8BT monitors using balanced 1/4" TRS connectors.

Now position the subwoofer and monitors where you would like them. Play audio through the computer, making sure that the volume of the computer, subwoofer and monitors are above "O".

Last step: move the subwoofer and monitors around until the optimal sound has been achieved and adjust volume to taste.



The illustration above shows a common use for the CR8SBT subwoofer and CR8BT monitors. Perhaps a friend created a playlist on their smartphone and wants to share it. With great hesitation, you finally oblige. Everyone has that one friend with terrible taste in music. We know, it happens.

In this example, a smartphone is connected to the CR8SBT subwoofer via Bluetooth.

From here, the L/R outputs from the CR8SBT are connected to the inputs of a pair of CR8BT monitors using RCA connectors.

Now position the subwoofer and monitors where you would like them. Play audio through the computer, making sure that the volume of the smartphone, subwoofer and monitors are above "0".

Last step: move the subwoofer and monitors around until the optimal sound has been achieved and adjust volume to taste.

# **Appendix A : Service Information**

#### Troubleshooting

If you think your Mackie product has a problem, please check out the following troubleshooting tips and do your best to confirm the problem. Visit the Support section of our website (www.mackie.com) to get some ideas or contact our technical support heroes. You may find the answer to the problem without having to send your Mackie product away.

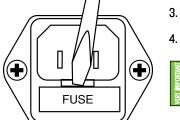
Here are some useful tips that could correct any of the issues outlined below (or possibly any other issue that we haven't yet discovered):

**Getting Started:** If you are having any sound (or non-sound) issues, try following the level setting procedure as outlined on page 6 to verify that all of the volume controls in the system are properly adjusted.

If none of these tips work, please refer to "Repair" on the next page to find out how to proceed.

#### **No Power**

- Our favorite question: Is it plugged in? Make sure the line cord is securely seated in the line cord socket and plugged all the way into the AC outlet. Make sure the AC outlet is live [check with a tester or lamp].
- Our next favorite question: Is the power switch on? If not, try turning it on.
- Make sure the power cord is plugged all the way into the AC outlet.
- Is the Running Man logo / LED on the front panel illuminated? If not, make sure the AC outlet is live. If so, refer to "No sound" below.
- If the power indicator is not illuminated, and you are certain that the AC outlet is live, it is possible the fuse has blown.
- To remove and replace the fuse:
  - 1. Disconnect the power cord from the IEC socket.
  - 2. Remove the fuse drawer by prying it open with a small screwdriver. It will slide all the way out.
  - 8. Remove the fuse and replace it with an equivalent-type fuse: T2AL 250V
  - 4. Replace the fuse drawer by pushing it all the way back into the IEC socket.



If two fuses blow in a row, then something is very wrong.

See the "Repair" section on the next page to find out how to proceed.

#### No Sound

- Is the level knob for the input source turned all the way down? Verify that all the volume controls in the system are properly adjusted.
- Is the signal source turned up? Make sure the connecting cables are in good repair and securely connected at both ends. Make sure the signal level from the computer, mixer, MP3 player, phone (or whatever device immediately precedes the monitors) is high enough to produce sound.

#### Poor sound

- Is it loud and distorted? Make sure that you're not overdriving a stage in the signal chain. Verify that all level controls are set properly.
- Are the input connectors plugged completely into the jacks? Be sure all connections are secure.
- Too much bass or not enough bass? Move around the room and see if the bass response changes. It's possible that your listening position coincides with a room mode where the low frequencies either become exaggerated or nulled. If so, try moving the subwoofer and monitors to a different position, or moving your listening position.

#### Noise / Hum / Buzz

- Check the signal cable between the computer/mixer/MP3 player/phone and the subwoofer. Make sure all connections are secure. These problems usually produce crackling noises, hum, or buzz.
- If connecting an unbalanced output to the subwoofer's balanced input, make sure the shield is connected to the unbalanced ground of the source.
- Make sure the signal cable is not routed near AC cables, power transformers, or other EMI sources (including wall warts and line lumps!). These sources usually produce hum.
- Is there a light dimmer or other triac-based device on the same AC circuit as the subwoofer? Dimmers cause buzzing noises. Use an AC line filter or plug the subwoofer into a different AC circuit.
- Excessive hiss is an indication of an incorrect gain setting somewhere before the speaker.
- If possible, listen to the signal source with headphones plugged in. If it sounds noisy there, it's not the subwoofer.

Try some of the following troubleshooting ideas:

- Use balanced connections throughout your system for the best noise rejection.
- Whenever possible, plug all the audio equipment's line cords into outlets which share a common ground. The distance between the outlets and the common ground should be as short as possible.

#### **Bluetooth or Other Issues**

- Please email or call Technical Support if you are having any other issue not listed here:
  - o <u>mackie.com/support-contact</u>
  - o 1-800-898-3211

#### Repair

For warranty service, refer to the warranty information on page 23.

Non-warranty service is available at a factory-authorized service center. To locate the nearest service center, visit www.mackie.com/support/distributors. Service for CR8SBT subwoofers living outside the United States may be obtained through local dealers or distributors.

If you do not have access to our website, please call our Tech Support department at 1-800-898-3211 (normal business hours, Pacific Time), to explain the problem. They will tell you where the nearest factory-authorized service center is located in your area.

# **Appendix B : Technical Information**

## **Specifications**

#### **Acoustic Performance**

Frequency Response (-10 dB): Frequency Response (-3 dB):	
Maximum SPL Peak:	

#### Transducers

Low Frequency:
polypropylene woofer

#### **Power Amplifiers**

System Power Amplific	ation
Rated Po	ver: 100 watts RMS
Design:	Class D

## Input / Output

Input Type	Female 1/4″ TRS balanced–unbalanced, RCA unbalanced
Input Impedance	
Output Type	Female 1/4″ TRS balanced-unbalanced,
Output Impedance	RCA unbalanced $$

#### **Bluetooth Information**

Bluetooth Protocol
Bluetooth Function Audio Streaming

#### **Line Input Power**

Detachable line cord	00V-240V~, 50-60 Hz, 150W
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#### **Construction Features**

Basic Design	Rectangular
Enclosure Construction	
Finish	Black Vinyl Wrap
Port Configuration	Custom-tuned bottom shelf port
Display LED	
	(surrounding the Running Man logo)
Operating Temperature	10 – 50 °C
	50 – 122 °F

#### Pets

Dogs:	Bulldog, Terrier, Spaniel, Shepherd,
-	Beagle, Retriever, Husky, Hound Dog,
	Chihuahua, Poodle, Dachshund, Rottweiler,
	Great Dane, St. Bernard, Shih Tzu, etc.
Cats:	Tabby, Siamese, Maine Coon,
	Persian, Burmese, Grumpy,
	Himalayan, Snowshoe, etc.
Fish:	
	Angelfish, Guppy, Clownfish, etc.
Birds:	Parakeet, Canary, Finch, Macaw,
	Dove, Cockatoo, Budgie, etc.
Other:	

#### **Physical Properties**

<b>CR8SBT</b>		
	Size (H x W x D):	
	Weight:	
<u>CRDV</u>		
	Size (H x W x D):	
	Weight:	0.31 lb // 0.14 kg

#### About

Part Number, Rev and Date:	SW1477, Rev A, October 2024

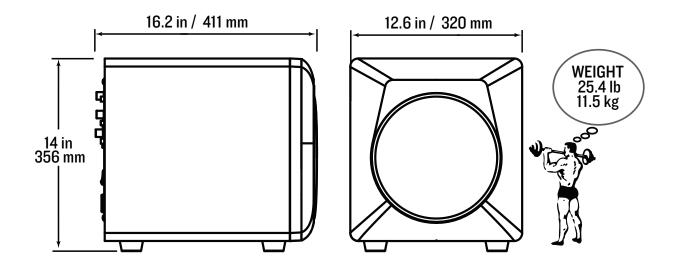
#### Disclaimer

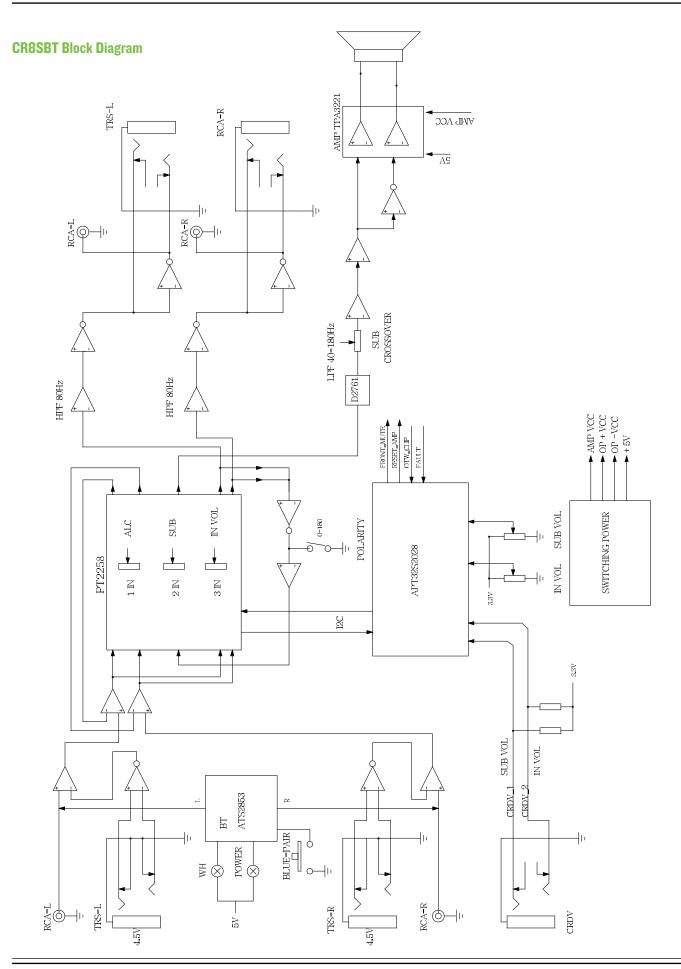
LOUD Audio, LLC. is always striving to improve our products by incorporating new and improved materials, components, and manufacturing methods. Therefore, we reserve the right to change these specifications at any time without notice. The "Running Man" is a registered trademark of LOUD Audio, LLC. All other brand names mentioned are trademarks or registered trademarks of their respective holders, and are hereby acknowledged.

Please check our website for any updates to this Owner's Manual: www.mackie.com.  $\textcircled{C}2024\ LOUD\ Audio,\ LLC.\ All\ right\ All\ right\ All\ right\ Second$ 

## **CR8SBT** Dimensions

# **DIMENSIONS**





#### **Warranty Statement**

## Please keep your sales receipt in a safe place.

This Limited Product Warranty ("Product Warranty") is provided by LOUD Audio, LLC. ("LOUD") and is applicable to products purchased in the United States or Canada through a LOUD-authorized reseller or dealer. The Product Warranty will not extend to anyone other than the original purchaser of the product (hereinafter, "Customer," "you" or "your").

For products purchased outside the U.S. or Canada, please visit www.mackie.com/warranty to find contact information for your local distributor, and information on any warranty coverage provided by the distributor in your local market.

LOUD warrants to Customer that the product will be free from defects in materials and workmanship under normal use during the Warranty Period. If the product fails to conform to the warranty then LOUD or its authorized service representative will at its option, either repair or replace any such nonconforming product, provided that Customer gives notice of the noncompliance within the Warranty Period to the Company at: www.mackie.com/support or by calling LOUD technical support at 1.800.898.3211 (toll-free in the U.S. and Canada) during normal business hours Pacific Time, excluding weekends or LOUD holidays. Please retain the original dated sales receipt as evidence of the date of purchase. You will need it to obtain any warranty service.

For full terms and conditions, as well as the specific duration of the Warranty for this product, please visit www.mackie.com/warranty.

The Product Warranty, together with your invoice or receipt, and the terms and conditions located at www.mackie.com/warranty constitutes the entire agreement, and supersedes any and all prior agreements between LOUD and Customer related to the subject matter hereof. No amendment, modification or waiver of any of the provisions of this Product Warranty will be valid unless set forth in a written instrument signed by the party to be bound thereby.

# Need help with the subwoofer?

- Visit www.mackie.com/support to find: FAQs, manuals, addendums, and other documents.
- Email us at: www.mackie.com/support-contact
- Telephone 1-800-898-3211 to speak with one of our splendid technical support chaps (Monday through Friday, normal business hours, Pacific Time).

Please write the serial numbers here for future reference (i.e., insurance claims, tech support, return authorization, make dad proud, etc.)

**Purchased at:** 

**Date of purchase:** 



19820 North Creek Parkway #201, Bothell, WA 98011 • USA Phone: 425.487.4333 • Toll-free: 800.898.3211 Fax: 425.487.4337 • www.mackie.com

