

CR6S-X

POWERED FLOOR-STANDING SUBWOOFER

OWNER'S MANUAL



Important 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 a dry cloth.
7. Do not block any ventilation openings.
Install in accordance with the manufacturer's instructions.
8. 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.
9. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
10. No naked flame sources, such as lighted candles, should be placed on the apparatus.
11. 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.
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.
14. Use only with a 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.
15. Unplug this apparatus during lightning storms or when unused for long periods of time.
16. 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.
17. 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.
18. Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.



CAUTION

RISK OF ELECTRIC SHOCK! DO NOT OPEN!

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence 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 presence of important operating and maintaining (servicing) instructions in the literature accompanying the appliance.

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.

Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan.

Apparatet stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord.

Apparatet må tilkoples jordet stikkontakt.

Apparaten skall anslutas till jordat uttag.

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.

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.
20. The MAINS plug or an appliance coupler is used as the disconnect device, so the disconnect device shall remain readily operable.
21. 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).
22. The use of apparatus is in tropical climates.
23. Operating Temperature: 0–45° C // 32–113° F
24. **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. 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.

25. This apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications. Canada ICES-003(B)/NMB-003(B)

ATTENTION — *Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de class B prescrites dans le règlement sur le brouillage radioélectrique édicté par les ministere des communications du Canada.*

26. 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 (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	The roar of Snoqualmie Falls
0.5	110	
0.25 or less	115	Loudest parts at a rock concert

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

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Features

- High-output 6.5" LF driver**
- Front Ported for enhanced bass**
- Capacitive touch Volume and Mute controls**
- Compact design saves precious floor space**
- Volume follows source audio**
- Integrated selectable RGB LEDs**
- 1/8" input easily connects to CR2-X speakers and other common subwoofer outputs**



Part No. SW1405 Rev. A 10/22

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Introduction

Don't just hear your music, feel it. With the CR6S-X subwoofer, you will truly experience all the bass hits, explosions, and rumbles that you've been missing, and you'll be doing it in style.

A high-output, down-firing 6.5" woofer combined with a carefully tuned port provide deep, punchy bass all within a compact form factor that doesn't take up precious room under your desk.

Easy to use touch controls for volume and mute plus integrated selectable RGB LED lighting complete your sleek desk look.

Get the full audio experience from your desktop audio with the CR6S-X subwoofer.

How to Use This Manual:

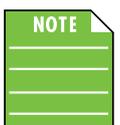
After this introduction, a getting started guide will help you get things set up fast. The hookup diagrams show some typical setups, while the remaining sections provide details of the CR6S-X.



This icon marks information that is critically important or unique to the CR6S-X. For your own good (and our peace of mind), please read and remember them. You will be quizzed later.



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 CR6S-X.

Getting Started

We realize that you can't wait to hook up your CR6S-X subwoofer and try it out. Nevertheless, please take the time to read this page NOW, and the rest can wait until you're good and ready.

1. Make all initial connections with the power switches OFF on all equipment.
2. Connect the outputs from the signal source to the input(s) of the studio monitors, then connect the output from the studio monitors to the input of the subwoofer.
3. Push the line cord securely into the subwoofer's/monitor's power connectors and plug the other ends into grounded AC outlets. The subwoofer/monitor(s) may accept the appropriate voltage as indicated near the power connector.
4. Turn the signal source on.
5. Turn the subwoofer on.
6. Turn the monitors on.
7. Start the signal source and raise the volume up to a comfortably loud listening level.

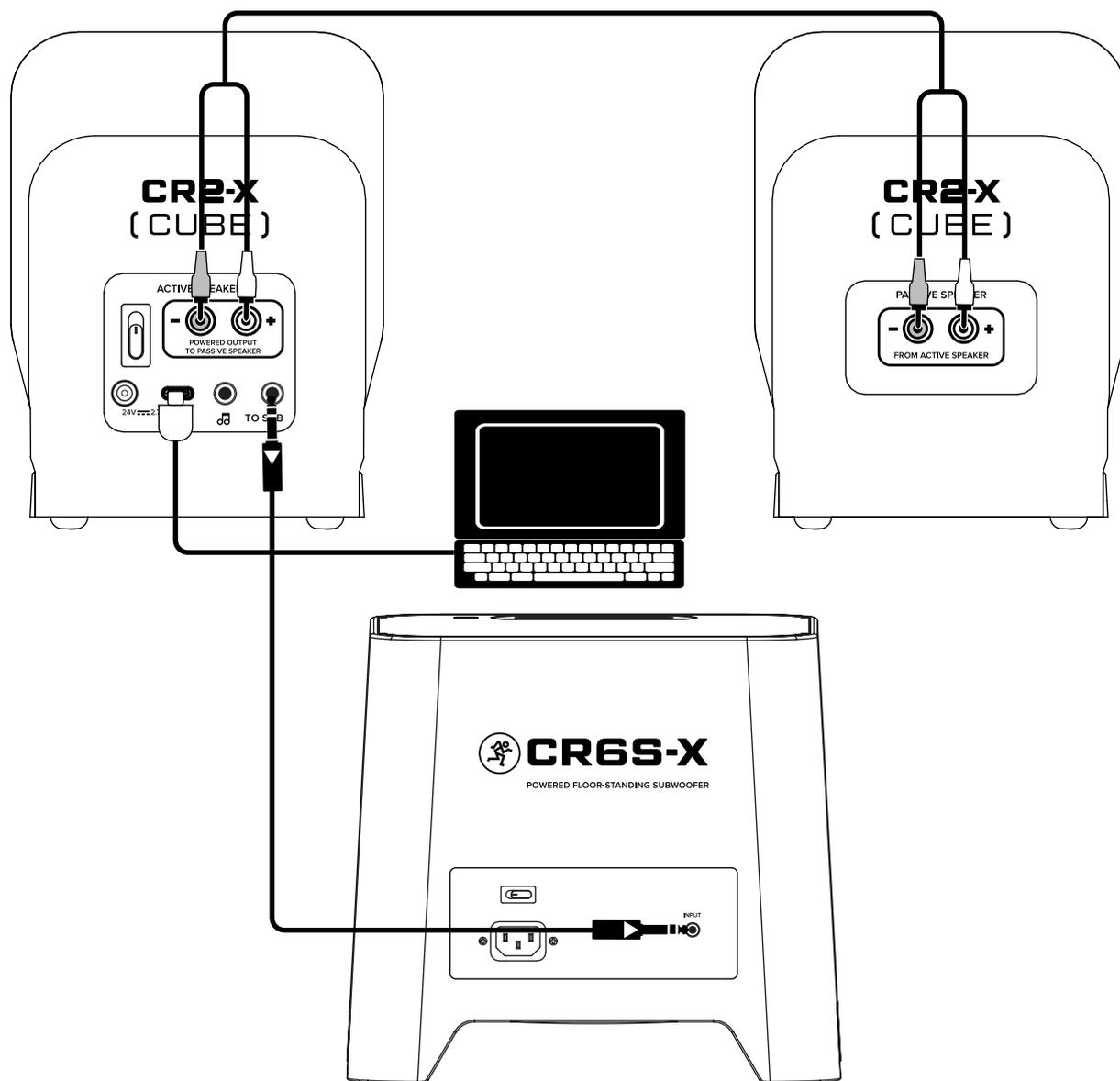
Things to Remember:

- 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.
- Save the sales receipt and original packaging in case you ever need warranty service.

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:



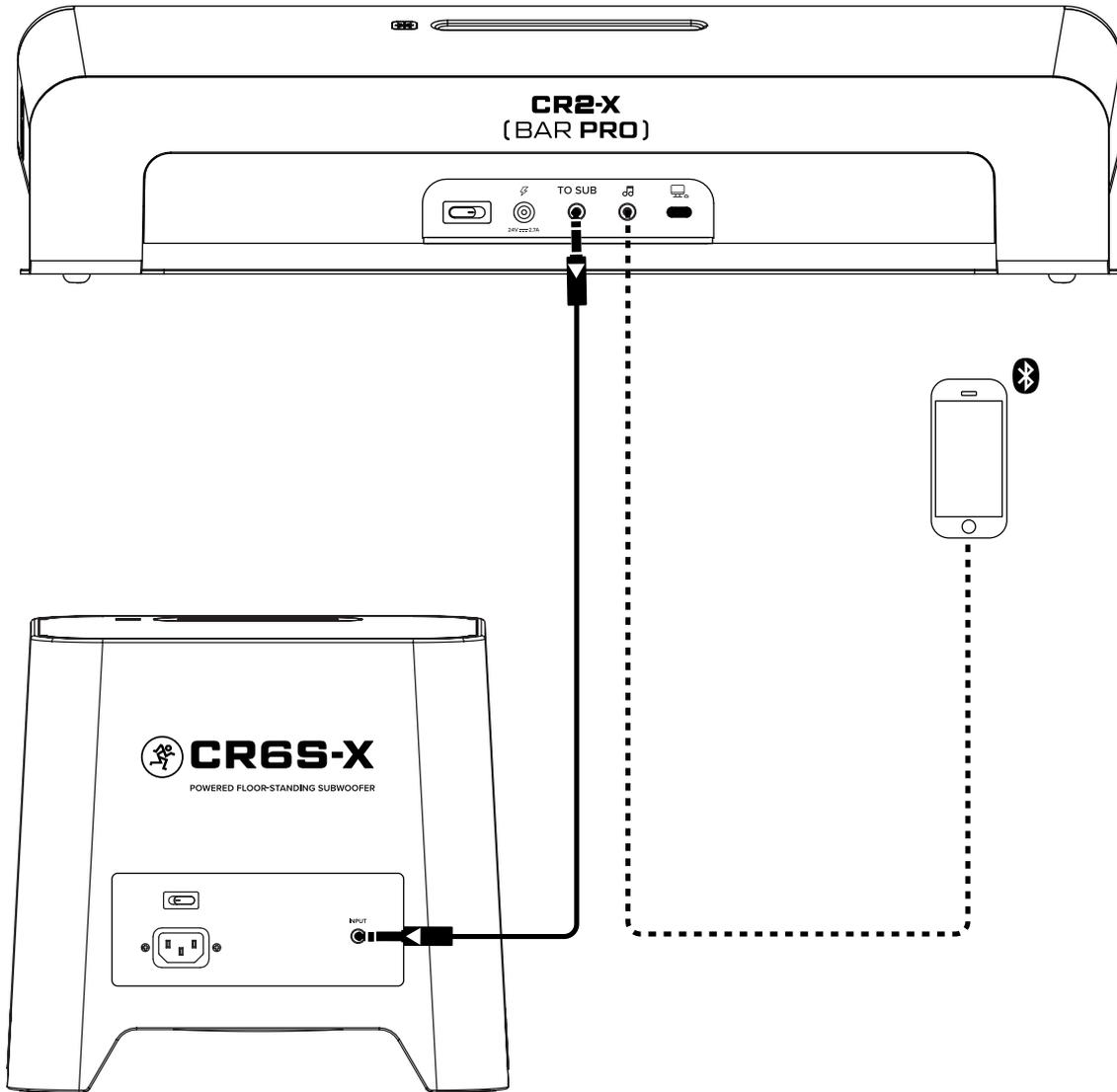
Adding a CR6S-X to the signal chain is quite easy, so let's take a quick look at a fairly typical setup. In this example, a computer is connected to a pair of Mackie CR2-X CUBE Compact Desktop Speakers via USB. [Note: you could also plug a source – such as a mixer, smartphone, mp3 player or other signal source – directly into the desktop speaker's input(s)].

From here, connect an 1/8" to 1/8" TRS cable from the "TO SUB" output of the CR2-X CUBE to the input jack of the CR6S-X subwoofer.

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 "0".

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

Hookup Diagrams continued...



The illustration above shows a common use for the CR6S-X subwoofer and CR2-X BAR PRO. 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 CR2-X BAR PRO via Bluetooth.

From here, connect an 1/8" to 1/8" TRS cable from the "TO SUB" output of the CR2-X BAR PRO to the input jack of the CR6S-X subwoofer.

Now position the CR6S-X subwoofer and CR2-X BAR PRO where you would like them. Play audio through the phone, making sure that the volume of the smartphone, CR6S-X subwoofer and CR2-X BAR PRO are above "0".

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

CR6S-X: Rear Panel Features



1. Power Connection

This is a standard 3-prong IEC power connector. Connect the detachable power cord to the power receptacle, and plug the other end of the power cord into an AC outlet.



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



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

2. Power Switch

Press the left side of this rocker switch inwards to turn on the subwoofer. Press the right side of this rocker switch inwards to turn off the subwoofer.



VERY IMPORTANT As a general guide, the mixer (or other signal source) should be turned on first, subwoofer(s) next, and monitors last.

As such, the monitors should also be turned off first, followed by the subwoofer(s), 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.

3. 1/8" Input Jack

Connect this to the studio monitors' output jack using an 1/8" TRS connector. The volume of the subwoofer will "follow" the source audio. What does that mean, though? Simply put, the CR6S-X "knows" the monitor volume level and will set the subwoofer volume accordingly.

However, the volume is only a suggestion. Want more bass? Increase the volume on the CR6S-X! Desire a little more high end? Turn the volume down on the CR6S-X!

It is wired as follows, according to standards specified by the AES (Audio Engineering Society):

Stereo 1/8" TRS

Sleeve = Shield (Ground)

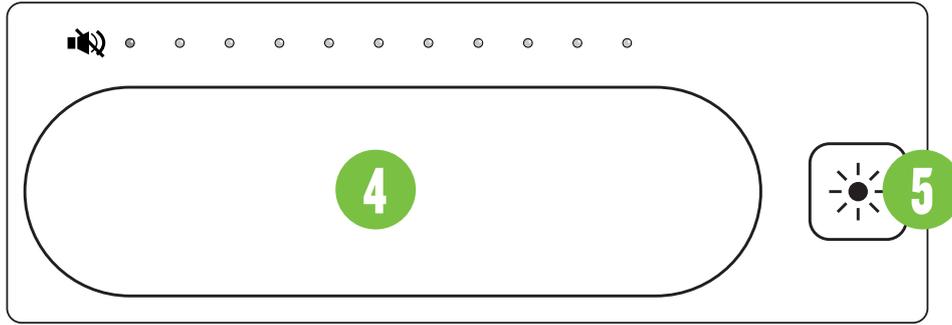
Tip = Left Channel

Ring = Right Channel



A CLOSER LOOK Sure, you could connect a smartphone, MP3 player or just about any other line-level signal directly to this input, but with the frequency range maxing out at 200 Hz, all you'll hear is low-end rumble.

CR6S-X: Top Panel Features



4. Volume

Tap or slide your finger in this indented volume bar to adjust the overall output level. The left side is quieter and right side is louder. The accompanying LEDs illuminate white to display the volume level. Tapping (or sliding to) the far left side will mute the output. The top panel LED would then be a single red LED.

5. LED Color Selector

The four corner pieces on the top of the CR6S-X subwoofer illuminate to add a nice accent to your surroundings. This momentary switch cycles between the eight color choices. Simply press this switch to cycle between the color selections.



While there are eight different colors to choose from, it will load up Mackie green upon each power-up.

The REAL fun!

The REAL fun begins when the CR6S-X isn't even being used as a subwoofer! Growing up, do you recall the Lite-Brite® "toy"? Well, with the CR6S-X, you and your child(ren) may utilize and enjoy the Lite-Brite® feature!

Here's how:

Step 1: Turn the power off on the CR6S-X.

Step 2: Included with the packaging are templates featuring groovy designs and blank canvases for creating and designing your own artistic masterpiece. Cover the left and/or right side of the CR6S-X with one of these canvases.

Step 3: Insert the small, colored pegs into the holes that are initially covered by the light box; i.e. the CR6S-X. The templates with designs on them have letters to inform you of what color peg to insert. "R" for red, "G" for green, "B" for blue, etc.

Step 4: When the designs are complete, power up the CR6S-X to illuminate them!



While the Lite-Brite® "toy" is included with the CR6S-X, there are other "gaming" uses for the subwoofer, as well. Use it as a table top for Monopoly®, Chutes and Ladders®, Candyland®, Stratego®, Risk® and more! Don't request a game of Battleship® with me because I will sink it! Savage!

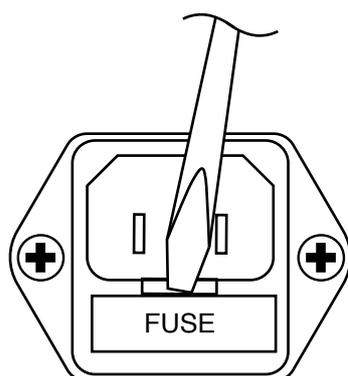
Appendix A: Service Information

If you think your CR6S-X 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/support) where you will find lots of useful information such as FAQs and other documentation. You may find the answer to the problem without having to part with your subwoofer.

Troubleshooting

No power

- Our favorite question: Is it plugged in? Make sure the 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.
- Are the top panel corner pieces illuminated? If not, make sure the AC outlet is live. If so, refer to “No sound” below.
- If the top panel corner pieces illuminated are 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.



3. Remove the fuse and replace it with an equivalent-type fuse: F3AL250V
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 signal level from the computer, mixer, MP3 player, phone (or whatever device immediately precedes the subwoofer) 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.
- If possible, listen to the signal source with headphones plugged into the preamp stage. If it sounds bad there, it's not the subwoofer.
- Too much bass or not enough bass? Move around the room and see if the bass response changes. It's possible your listening position coincides with a room mode where the low frequencies either become exaggerated or nulled. If so, try moving the subwoofer 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.
- 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 CR6S-X? Dimmers cause buzzing noises. Use an AC line filter or plug the CR6S-X into a different AC circuit.

- Try disconnecting the cable connected to the input jack. If the noise disappears, it could be a “ground loop,” rather than a problem with the CR6S-X 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.
- If connecting an unbalanced output to the CR6S-X subwoofer’s balanced input, make sure the shield is connected to the unbalanced ground of the source.
- 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.

Other Issues

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

Repair

For warranty service, refer to the warranty information on page 12.

Non-warranty service is available at a factory-authorized service center. To locate the nearest service center, visit www.mackie.com/support/service-locator. Service for a CR6S-X 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

CR6S-X Specifications

Noise Characteristics

Frequency Range (-10 dB):	40 – 200 Hz
Maximum SPL Peak:	105 dB
Total System Power:	60 watts peak
Dynamic Range:	≥90 dB
Signal-to-Noise Ratio:	≥90 dB

Physical Dimensions and Weight

Height:	10.0 in / 255 mm
Width:	11.0 in / 280 mm
Depth:	11.0 in / 280 mm
Weight:	7.4 lb / 3.4 kg

Power Requirements

IEC:	100–240V ~50 / 60 Hz
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Disclaimer

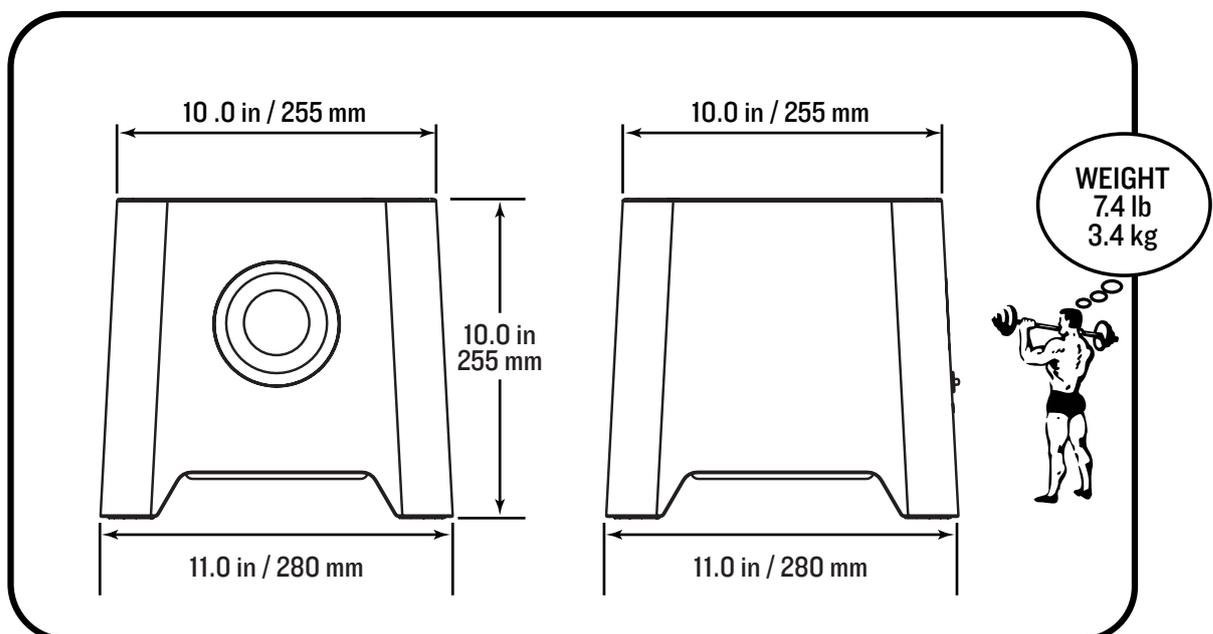
Since we are always striving to make our products better by incorporating new and improved materials, components, and manufacturing methods, we reserve the right to change these specifications at any time without notice.

“Mackie.” and the “Running Man” figure are registered trademarks of LOUD Audio, LLC.

All other brand names mentioned are trademarks or registered trademarks of their respective holders, and are hereby acknowledged.

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CR6S-X Dimensions



Limited Warranty

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 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 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.

The Product Warranty, together with your invoice or receipt, and the terms and conditions located at www.mackie.com 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 CR6S-X?

- 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).



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